

Forward-Looking Statements

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Leading the Next Generation of Oral CERAN/SERDs for the Treatment of ER+/HER- Metastatic Breast Cancer (MBC)



OP-1250, Best-in-Class CERAN/SERD for ER+/HER2- MBC

- Completely shuts down estrogen receptor signaling pathways in women with ER+/HER- MBC
- Internally-discovered, wholly-owned IP with no royalty burden



Clinical Validation as a Monotherapy and in Combo w/ CDK4/6i

- Over 160 patients treated to date with OP-1250
- Highly encouraging Phase 1/2 clinical results in both monotherapy and combination studies



Initiating 1st Pivotal Phase 3 monotherapy study in mid-2023

- FDA Fast Track designation in 2L+ ER+/HER2- MBC
- Combination studies ongoing with Ibrance[®], Kisqali[®] and Piqray[®]



Multi-Billion Dollar Commercial Market Opportunity

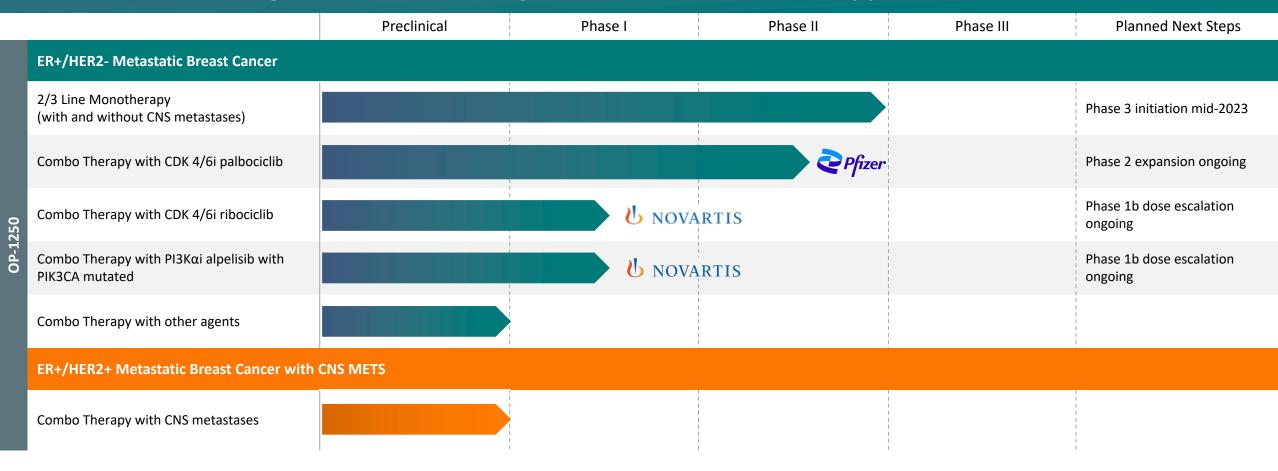
- 2L/3L+ MBC, represents a \$3-5B commercial opportunity
- 1L MBC in combination with CDK 4/6i, represents a \$5-10B commercial opportunity

Strong cash position of \$222.6M⁽¹⁾ to support clinical development and operations into 2H 2024



Rapidly Advancing OP-1250 into Pivotal Studies Beginning in 2023

Evaluating OP-1250 across a range of ER cohorts in monotherapy and combination trials





Breast Cancer is the Second Most Common Diagnosed Cancer Worldwide

Estimated \$20B market for endocrine therapies (ET) and targeted agents for ER+ breast cancer

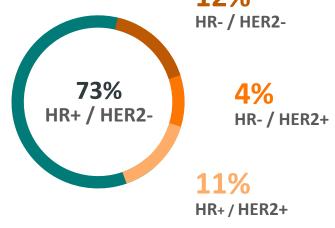
In 2022, approximately 288K

Women in the U.S. were diagnosed with breast cancer

43,250

Women in the U.S. will succumb to metastatic breast cancer

Majority of All Breast Cancers express Estrogen Receptor (ER+) 12% HR-/HER2-



Current Endocrine Therapy Options

SERMs, Als, SERDs

Limitations include:

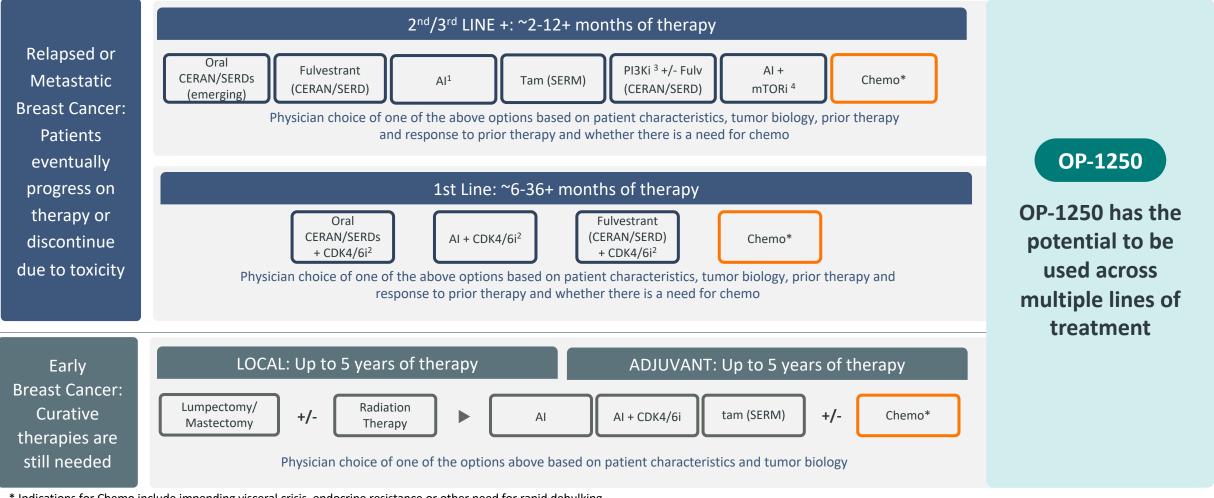
- Incomplete ER antagonism
- Sub-optimal PK profile
- Limited CNS penetration
- Tolerability issues

Better ER targeting agents are needed



Endocrine Therapy Remains the Backbone of ER+ Breast Cancer Treatment OP-1250 has the potential to improve upon existing treatments to become the best-in-class ET

Illustrative Examples of ER+/HER2- Breast Cancer Treatment Options



^{*} Indications for Chemo include impending visceral crisis, endocrine resistance or other need for rapid debulking

Sources: American Cancer Society; UptoDate.com; Sammons et al. *Target Oncol.* (2019); industry knowledge Tam: tamoxifen; Fulv: fulvestrant; DFS: Disease-Free Survival; mPFS: Median Progression-Free Survival; ORR: Objective Response Rate

(1) anastrozole, letrozole, exemestane; (2) abemaciclib, palbociclib, ribociclib; (3) copanlisib; (4) sirolimus, everolimus, temsirolimus



Segments of Therapy in ER+/HER2- Breast Cancer

First Pivotal Study will target 2L/3L therapy, followed by studies in 1L therapy setting

		ER+ / HER2-1				ER+ / HER2+ ²
	LINE OF THERAPY	2L/3L+	1L	High-Risk Adjuvant	Early Breast Cancer	HER2+ w/ CNS Mets
	PATIENTS	~150K	~115K	~75K	~285K+	~10K
<u></u>	DURATION OF THERAPY ³	~2-12+ months	~6-36+ months	Up to 5 years	Up to 5 years	~12 months
	MARKET POTENTIAL ⁴	~\$3-5B	\$5-10B+	~\$3-5B	\$10B+	~\$500 M

Significantly Fewer Competing Programs for 2/3L and 1L MBC Treatment

10 Active Programs YE 2021

4 Active Programs YE 2022

4 Active Programs YE 2022

2L/3L ER+/HER2-**MBC**



ARVINAS



AstraZeneca 🕏



Lilly



















1L ER+/HER2-**MBC**





zentalis



















OP-1250: Best-in-Class Potential for ER+/HER2- Breast Cancer

Clinical dataset with over 160 patients treated with OP-1250 supports opportunity in both monotherapy and combination settings for patients with ER+/HER2- advanced metastatic breast cancer



Complete ER Antagonism

Dual activity as a next-generation CERAN / SERD to drive deeper, more durable responses in both wild-type and mutant ER



Attractive PK Profile

Highly favorable pharmacokinetics, oral bioavailability and 8-day half-life leading to steady-state plasma levels with minimal peakto-trough variability



Favorable Tolerability

Favorable tolerability profile in heavily pretreated patients



Robust Tumor Shrinkage

Meaningful antitumor activity in both wild-type and mutant ER in preclinical models and durable benefit in clinical settings



Combinability w/ CDK4/6i

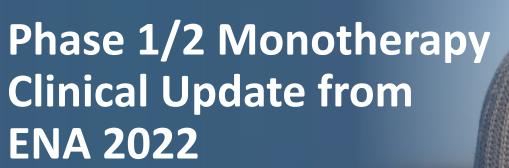
Combinable with
Palbociclib – no
DDI* and overall
tolerability profile
consistent with
expected profile of
palbociclib plus
endocrine therapy



CNS Penetration

Demonstrated activity in nonclinical brain metastases studies

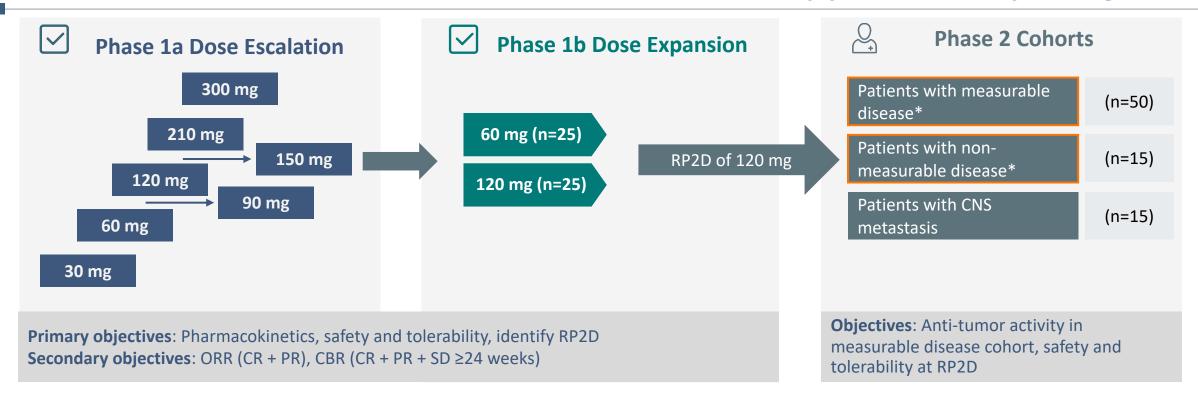








OP-1250-001 First-in-Human Phase 1/2 Monotherapy Trial: Study Design



Key Inclusion Criteria:

Phase 1a:

- Tumor must be ER+/HER2 negative
- At least one prior hormone-based therapy for locally advanced, recurrent, or metastatic disease
- 0-2 prior chemotherapy regimens for locally advanced or metastatic disease
- Measurable and non-measurable disease (evaluable disease)

Phase 1b:

- Tumor must be ER+/HER2 negative
- 1-4 prior hormone-based therapy for locally advanced, recurrent, or metastatic disease
- 0-1 prior chemotherapy regimens for locally advanced or metastatic disease
- Measurable disease by RECIST 1.1 Criteria

^{*}Fully-enrolled.

Olema

OP-1250 Phase 1/2 Dose Expansion *Patients Received Extensive Prior Therapies*

Patient characteristics	60 mg (n=33)	120 mg (n=35)	Total ª (N=68)
Age, median, years	61	61	61
Range	30–81	39–77	30–81
ECOG performance status, n (%)			
0	22 (67)	17 (49)	39 (57)
1	11 (33)	18 (51)	29 (43)
Measurable disease at baseline, n (%)	32 (97)	34 (97)	66 (97)
Visceral disease (liver, lung, peritoneum, pleura, ascites), n (%)	27 (82)	29 (83)	56 (82)
Prior lines of therapy in advanced setting, n (%)			
1	9 (27)	11 (31)	20 (29)
2	9 (27)	10 (29)	19 (28)
≥3	15 (46)	13 (37)	28 (41)
Missing	0	1 (3)	1 (2)
Prior lines of endocrine therapy in advanced setting, n (%)			
1	13 (39)	12 (34)	25 (36)
2	8 (24)	15 (43)	23 (34)
≥3	11 (33)	7 (20)	18 (27)
Missing	1 (3)	1 (3)	2 (3)
Types of prior therapy in advanced setting, n (%)			
Chemotherapy	14 (42)	8 (23)	22 (32)
Al	26 (79)	29 (83)	55 (81)
Fulvestrant	22 (67)	22 (63)	44 (65)
CDK4/6 inhibitor	32 (97)	33 (94)	65 (96)
ESR1 mutations at baseline (ctDNA), n/N (%)	15/20 (75)	12/26 (46)	27/46 (59)

- 69% of patients received 2 or more prior lines of therapy in the advanced setting; 82% visceral disease
- 96% received prior CDK 4/6i; 81% received prior AI; 65% received prior fulvestrant
- 59% had activating mutations in ESR1
- Up to 50% of patients expected to be endocrine resistant*

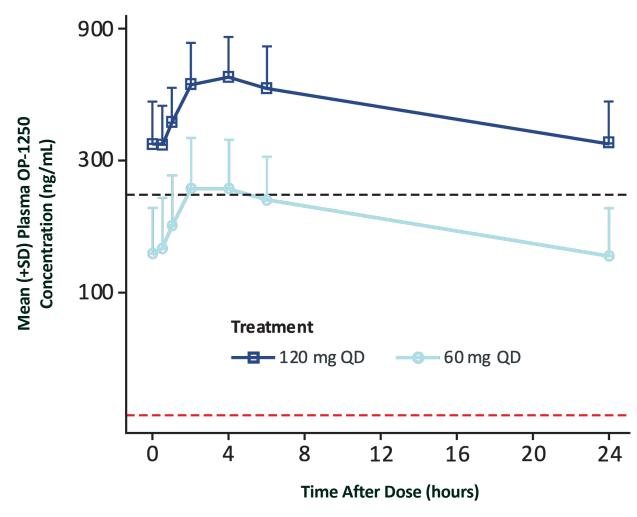


^aSums may not total to 100% due to rounding.

^{*}Source: EMERALD Phase 3 trial in CDK 4/6 inhibitor-experienced 2/3L patients, Journal of Clinical Oncology. Al, aromatase inhibitor; CDK4/6, cyclin-dependent kinase 4/6; ECOG, Eastern Cooperative Oncology Group.

Dose-Proportional PK with Optimal Steady-State Plasma Concentrations

OP-1250 Steady-state Plasma Concentration-time Profiles



- High oral bioavailability and steady-state plasma levels with minimal peak-to-trough variability allowing complete inhibition of the ER for the full dosing interval
- Dosing at the RP2D of 120 mg yields drug exposures that exceed the predicted efficacious threshold based on pre-clinical models
- Mean terminal half-life $(T_{1/2})$ = 8 days, supporting oncedaily dosing

Dashed black line=target efficacious exposure based on estradiol-supplemented preclinical models $(C_{min}=226 \text{ ng/mL})$ (8 studies); dotted red line=fulvestrant $C_{max}=28 \text{mg}$ dosed at 500mg every 28 days QD, once daily.



60 mg and 120 mg Doses Well Tolerated in Phase 1/2 Monotherapy Dose Expansion

TRAEs in ≥15% of Patients in Phase 1a/1b	60 mg (n=33)		120 mg (n=35)			Total (60 mg & 120 mg, n=68)		
	Grade 1	Grade 2	≥Grade 3	Grade 1	Grade 2	≥Grade 3	Grade 1/2	≥Grade 3
Any TRAE	9	7	1	18	3	6	37 (54%)	7 (10%)
Nausea	8	2	0	18	0	1	28 (41%)	1 (1%)
Fatigue	5	4	0	5	2	1	16 (24%)	1 (1%)
Vomiting	2	1	0	7	0	0	10 (15%)	0

Grade 3/4 Neutropenia

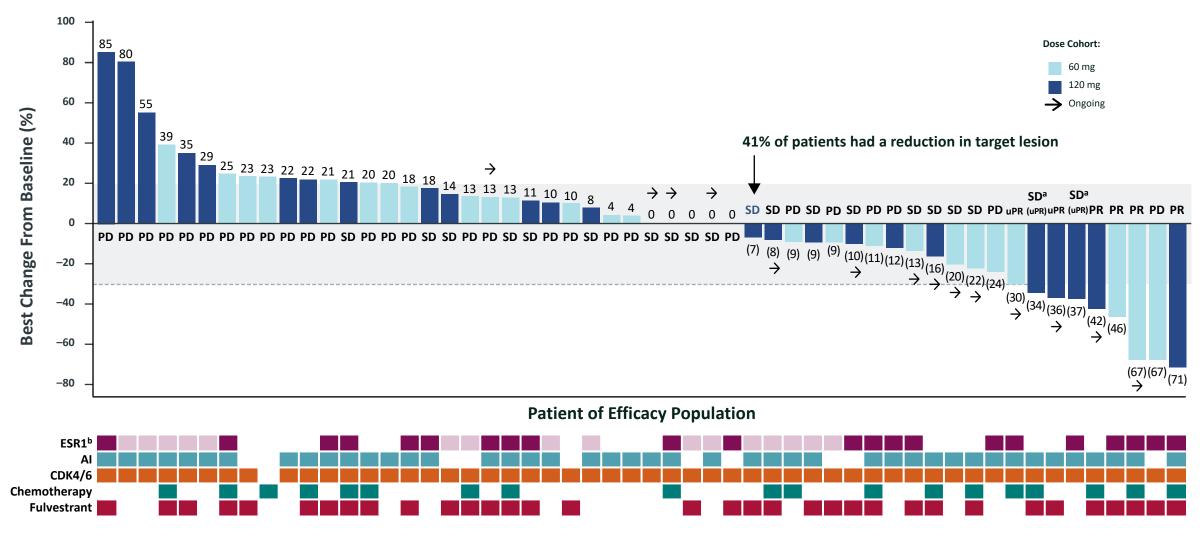
Four out of 68 patients had Grade 3/4 neutropenia, occurring ~4-6 weeks into therapy and have recovered

- 1 patient had Grade 3 neutropenia at 120 mg, discontinued due to concurrent disease progression; neutropenia recovered
- 3 patients had Grade 4 neutropenia at 120 mg:
 - 1 patient's dose was interrupted for 1 week and was restarted at a lower dose (60 mg) with a subsequent cPR and no further neutropenia
 - 1 patient had Grade 4 neutropenia concurrent with disease progression, discontinued, and recovered
 - 1 patient had febrile neutropenia with no evidence of infection, discontinued from treatment, and recovered
- Oncologists are comfortable monitoring for and managing neutropenia in breast cancer patients

Other Grade 3 Events

- Three additional grade 3 events assessed as potentially related to study drug:
 - Anemia (1 at 60 mg)
 - Nausea (1 at 120 mg)
 - Fatigue (1 at 120 mg)

Meaningful Anti-Tumor Activity in OP-1250 Dose Expansion



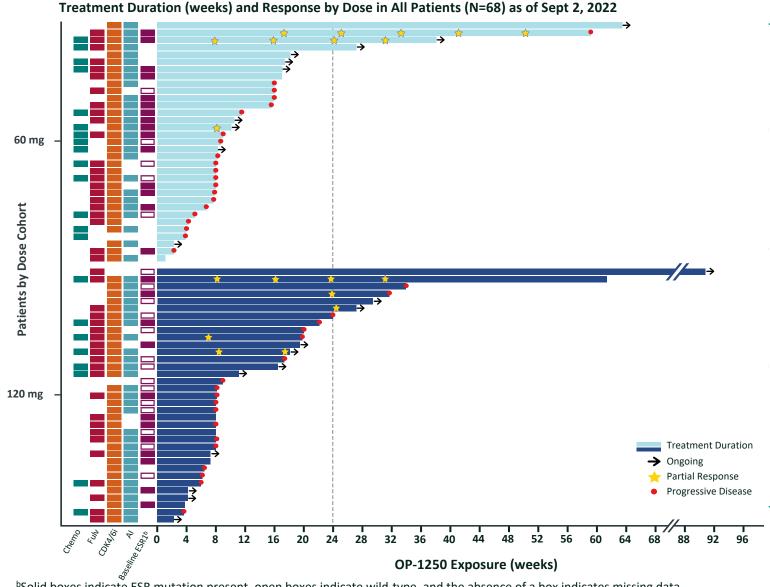
^aPatient had an unconfirmed partial response and later progressed at a subsequent scan.

Al, aromatase inhibitor; CDK4/6i, cyclin-dependent kinase 4/6 inhibitor; Chemo, chemotherapy; Fulv, fulvestrant; PD, progressive disease; PR, partial response; QD, once daily; SD, stable disease; uPR, unconfirmed partial response.



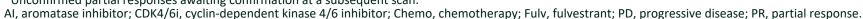
^bDark shaded boxes indicate ESR mutation present, light shaded boxes indicate wild-type, and the absence of a box indicates missing data.

Clear Efficacy and Durable Clinical Benefit in Heavily Pretreated Population



- Across all patients: 6 PRs out of 57 response-evaluable patients (4 cPRs and 2 uPRs*)
- In ESR1 mutant patients: 4 PRs out of 22 response-evaluable patients (3 cPRs and 1 uPR*)
- 39% CBR at RP2D of 120 mg (7/18)
- 32% CBR across both doses (11/34)
- Data maturing with 31% of patients remaining on treatment as of Sept 2, 2022

^{*}Unconfirmed partial responses awaiting confirmation at a subsequent scan.



^bSolid boxes indicate ESR mutation present, open boxes indicate wild-type, and the absence of a box indicates missing data.

Phase 1/2 Dose Expansion Summary OP-1250 is a Phase 3-ready asset with an emerging best-in-class profile

A complete ER-antagonist with attractive PK, high drug exposures and a long-half life

Heavily Pre-treated Patients			
82%	of patients had visceral disease at baseline		
96%	of patients were CDK 4/6 inhibitor experienced		
65%	of patients had prior fulvestrant		
69%	2 or More Prior Lines in the Advance Setting		

	Best-in-Class Emerging Profile				
84%	of TRAEs were Grade 1 / 2 in severity with no MTD				
41%	of target tumor lesions reduced in size				
4 + 2	Confirmed / Unconfirmed partial responses*				
39%	CBR at RP2D of 120 mg; 31% of patients still on therapy; efficacy maturing				

Up to 50% of patients expected to be endocrine resistant**

Clinically meaningful durable responses in endocrine sensitive patients



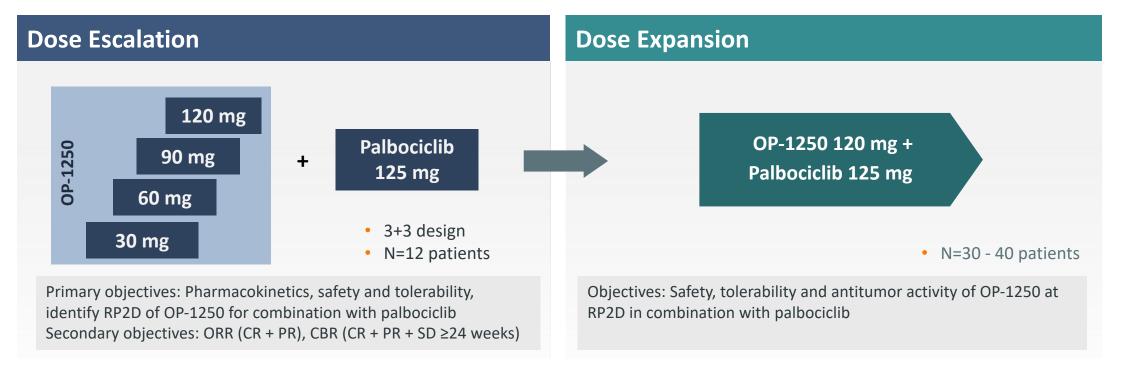
^{*}Unconfirmed partial responses awaiting confirmation at a subsequent scan.

^{**}Source: EMERALD Phase 3 trial in CDK 4/6 inhibitor-experienced 2/3L patients, Journal of Clinical Oncology. Data cut as of September 2, 2022.



Phase 1b Combination Study with Palbociclib: Study Design

Initiated January 2022



Key Inclusion Criteria:

- ER+/HER2- advanced breast cancer
- Evaluable disease (measurable and non-measurable)
- ≤ 1 prior hormonal regimen for locally advanced or metastatic disease
- Can be CDK4/6i naïve or pre-treated



OP-1250 Phase 1b Dose Escalation in Combination with Palbociclib *Of 12 Patients, 8 had prior CDK 4/6i treatment, 4 patients with baseline ESR1 mutations*

Patient characteristics	Total ^a (N=12)
Median age (years)	62
Range	49–76
ECOG performance status, n (%)	
0	9 (75)
1	3 (25)
Measurable disease at baseline, n (%)	11 (92)
Visceral disease (liver, lung, peritoneum, pleura, ascites), n (%)	6 (50)
Prior lines of therapy in advanced setting, n (%)	
0	2 (17)
1	7 (58)
2	2 (17)
3	1 (8)
Prior lines of endocrine therapy in advanced setting, n (%)	
0	3 (25)
1	9 (75)
Types of prior therapy in advanced setting, n (%)	
Chemotherapy	3 (25)
Aromatase inhibitor (AI)	8 (67)
Fulvestrant	1 (8)
CDK4/6 inhibitor	8 (67)
ESR1 mutations at baseline (ctDNA), n/N (%)	4 (36); N=11 evaluated

OP-1250 Phase 1b Dose Escalation in Combination with Palbociclib Well Tolerated with No DLTs

TEAEs in ≥15% of Patients	Total (N=12)				
	Grade 1	Grade 2	Grade 3	Grade 4	
Neutropenia ^a	1	2	8	0	
Nausea	3	3	0	0	
Vomiting	5	0	0	0	
Anemia	2	2	0	0	
GERD	2	2	0	0	
Constipation	2	1	0	0	
Fatigue	2	0	1	0	
Thrombocytopenia	3	0	0	0	
COVID-19	0	2	0	0	
Decreased appetite	1	1	0	0	
Diarrhea	0	2	0	0	
Headache	2	0	0	0	
Sinus bradycardia	1	1	0	0	
UTI	0	2	0	0	
WBC count decreased	0	1	1	0	

^a Includes adverse events reported as either "Neutropenia" or "Neutrophil count decreased."

TEAE, Treatment-Emergent Adverse Event. UTI, urinary tract infection, WBC, white blood cell Data Cutoff Date: September 12, 2022

Safety

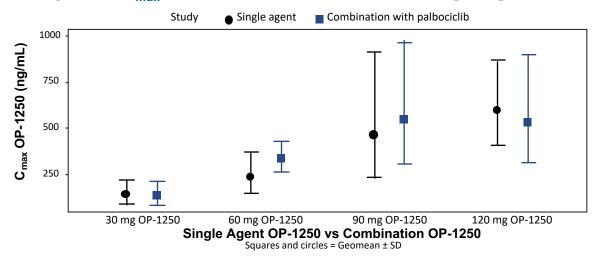
- No DLTs were observed during dose escalation and MTD was not reached
- No dose-related increase in the incidence or severity of adverse events was observed
- Majority of TEAEs were grade 1 or 2
 - Increasing dose did not show increase in frequency
 - Frequently reported TEAEs included neutropenia, nausea, vomiting, anemia, and gastroesophageal reflux disease
- No patients discontinued treatment due to adverse event, including neutropenia
- OP-1250 was not dose reduced in any patient
- Grade 3 neutropenia was reported in 8 patients (67%)
 - Time of onset was approximately 2-4 weeks on treatment
 - Rate of neutropenia consistent with the FDA-approved label for palbociclib plus an endocrine therapy (PALOMA 2¹ overall incidence of neutropenia was 80% with 56% grade 3 and 10% grade 4)
- No Grade 4 neutropenia was reported



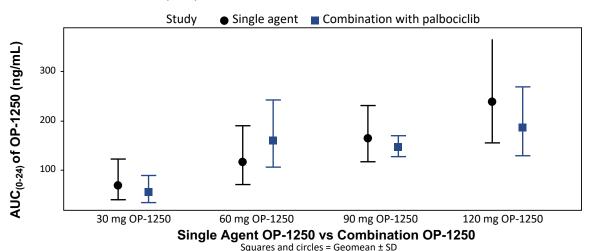
¹ Ibrance (palbociclib) prescribing information. Pfizer Inc. 2019.

OP-1250 Phase 1b Dose Escalation in Combination with Palbociclib No drug-drug interaction observed between OP-1250 and Palbociclib

Steady State C_{max} of OP-1250 Combination vs. Single Agent



Steady State $AUC_{(0-24)}$ of OP-1250 Combination vs. Single Agent



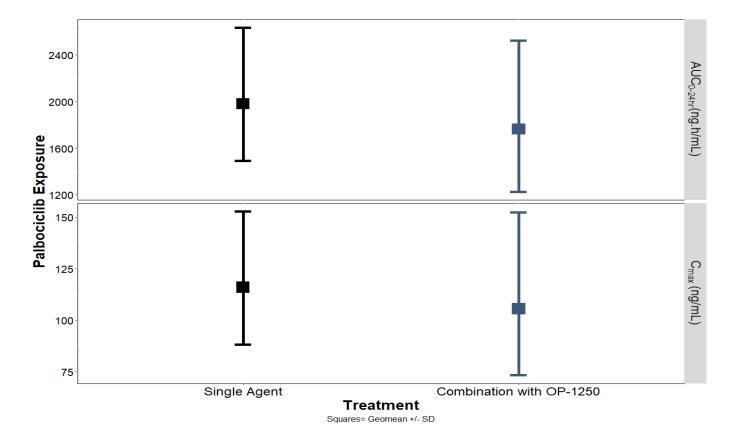
Pharmacokinetics

- No drug-drug interaction between palbociclib and OP-1250 in the dose range of 30 to 120 mg
 - Palbociclib did not affect OP-1250 exposures compared to OP-1250 monotherapy
- OP-1250 was readily bioavailable and demonstrated dose-proportional exposures and a long half-life
- Steady-state plasma levels show minimal peak-totrough variability, enabling consistent inhibition of ER for the full dosing interval



OP-1250 Phase 1b Dose Escalation in Combination with Palbociclib No drug-drug interaction observed between OP-1250 and Palbociclib

Steady State AUC₀₋₂₄ and C_{max} of Palbociclib vs. Published Concentrations^a

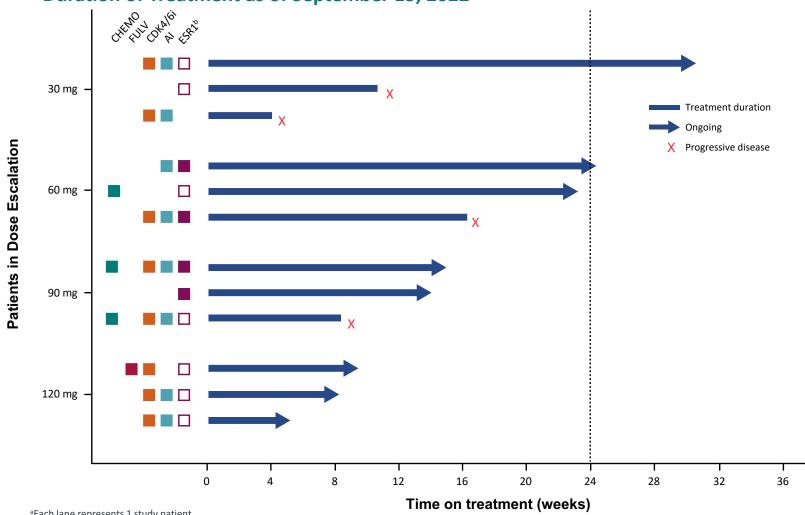


Pharmacokinetics

- No drug-drug interaction between palbociclib and OP-1250 in the dose range of 30 to 120 mg
- OP-1250 did not affect palbociclib 125 mg exposures when compared to published concentrations
- Exposure of palbociclib was within 90% of reported geometric means values for palbociclib

OP-1250 Phase 1b Dose Escalation in Combination with Palbociclib Preliminary Duration on Treatment

Duration of Treatment as of September 15, 2022^a



- 8 of 12 patients remain on treatment as of data cutoff Sept. 12, 2022
- Data continues to mature with stable disease lasting ≥24 weeks and ongoing for 2 patients; longest duration of treatment in the study is 31 weeks
- 4 patients have discontinued treatment due to disease progression
- Phase 2 dose expansion in up to 30 additional patients at 120mg OP-1250 in combination with palbociclib ongoing



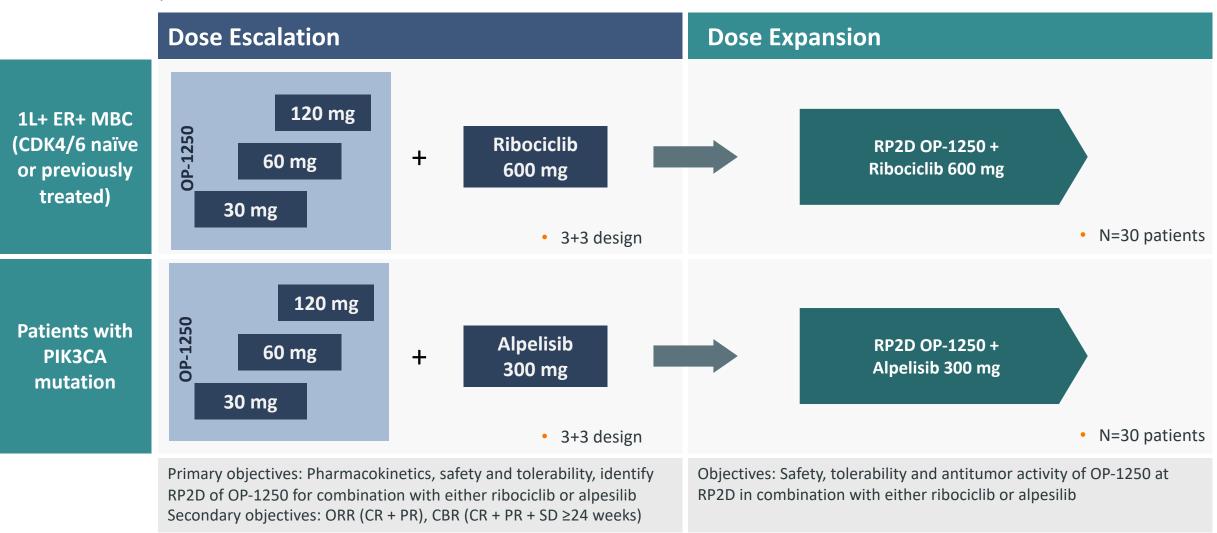
^aEach lane represents 1 study patient.

bSolid boxes indicate ESR mutation present, open boxes indicate wild-type, and the absence of a box indicates missing data.

Al, aromatase inhibitor; CDK4/6i, cyclin-dependent kinase 4/6 inhibitor; CHEMO, chemotherapy; ESR1, estrogen receptor 1; FULV, fulvestrant.

Phase 1b Combination Study with Ribociclib and Alpelisib

Initiated Q3 2022

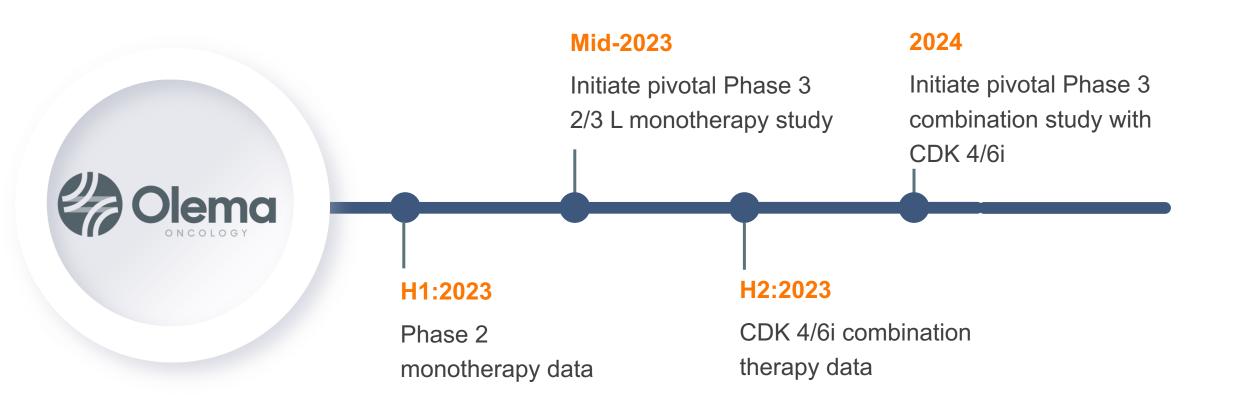




Rapidly Advancing OP-1250 Toward Pivotal Phase 3 Studies

Dose Range of 30 mg to 300 mg Phase 1a Dose Escalation **Completed n=42** Dose Expansion at 60 mg and 120 mg Phase 1b Dose Expansion **Completed Enrollment n=56** Monotherapy Measurable **Completed Enrollment n=50** Disease Non-measurable Phase 2 **Completed Enrollment n=15** Disease **CNS Mets Enrollment ongoing** 2L/3L Pivotal Phase 3 Initiation planned for mid-2023; End-of-Phase 2 meeting with FDA in Q1 2023 Successful Dose Escalation through 120 mg OP-1250 w/ Palbociclib Combination P2 Dose Expansion at 120 mg ongoing Therapy OP-1250 w/ Ribociclib or Alpelisib **P1b Dose Escalation ongoing** 1L Pivotal Phase 3 w/ Ribociclib or Pivotal Phase 3 planned for 2024 **Palbociclib**

Delivering on Value Creating Milestones



Strong cash position of \$222.6M⁽¹⁾ to support clinical development and operations into 2H 2024

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- Highly encouraging Phase 1/2 clinical results in both monotherapy and combination studies



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- Combination studies ongoing with Ibrance[®], Kisqali[®] and Pigray[®]



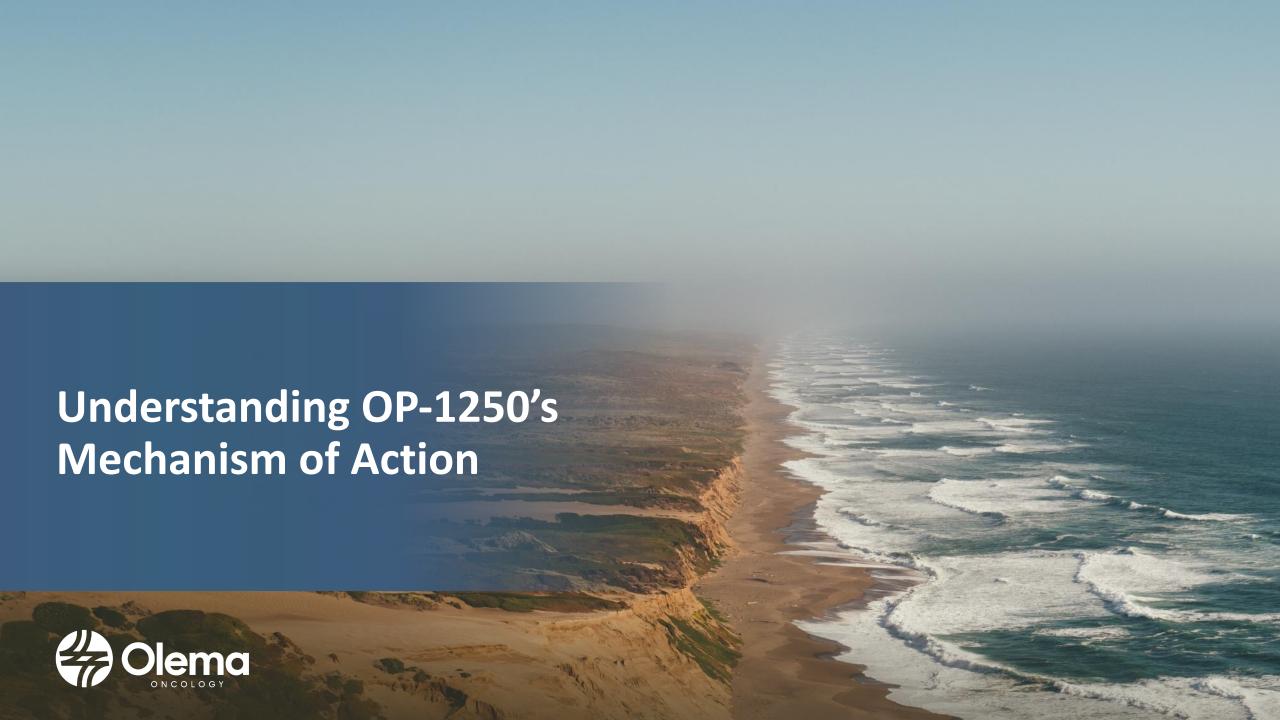
Multi-Billion Dollar Commercial Market Opportunity

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- 1L MBC in combination with CDK 4/6i, represents a \$5-10B commercial opportunity

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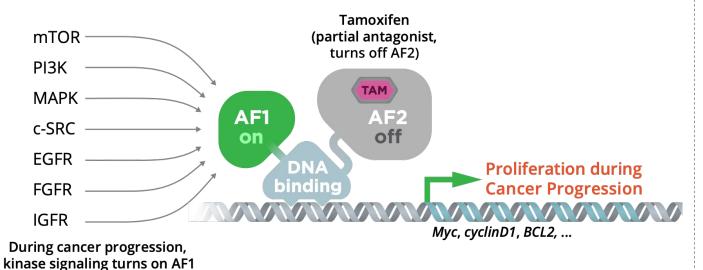




OP-1250: a Complete Estrogen Receptor ANtagonist (CERAN)

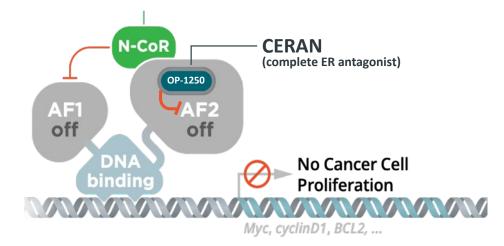
OP-1250 potently and completely inactivates the Estrogen Receptor (ER), blocks ER-driven transcriptional activity, inhibits ER-driven breast cancer cell growth, and strongly induces degradation of ER

Partial Antagonists Have a Short Duration of Response for Treatment of Metastatic Breast Cancer



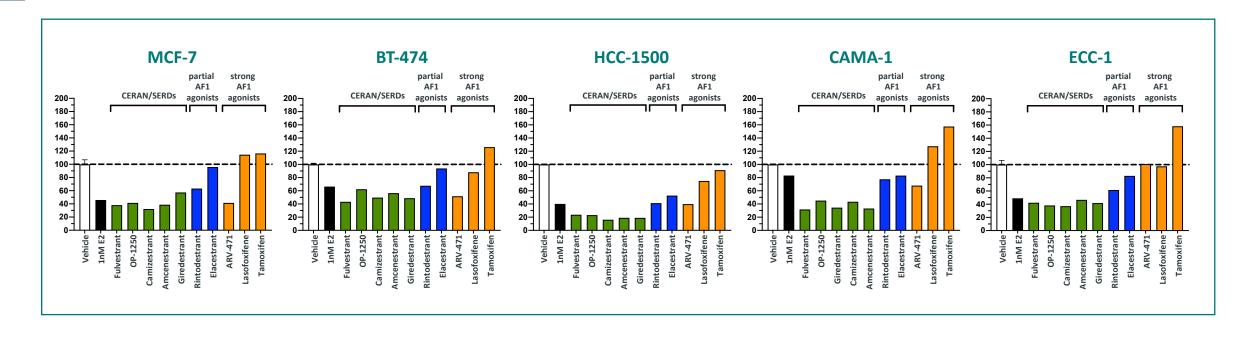
SERM/SERDs block AF2 activity, but enable AF1 activation

Complete antagonists turn off AF2 and recruit N-CoR to inactivate AF1



AF1: activation factor 1 AF2: activation factor 2

Both CERAN/SERDs and SERM/SERDs Are Strong Degraders of ERα



OP-1250 and CERAN/SERDs strongly degraded the estrogen receptor (ER) in five ER+ cell lines

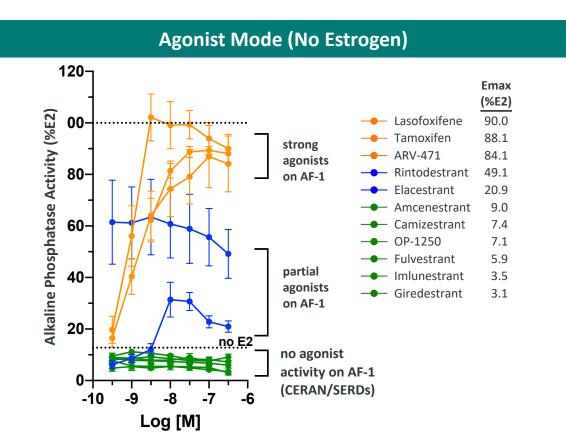
Partial and strong agonists demonstrated variable and inconsistent ER degradation

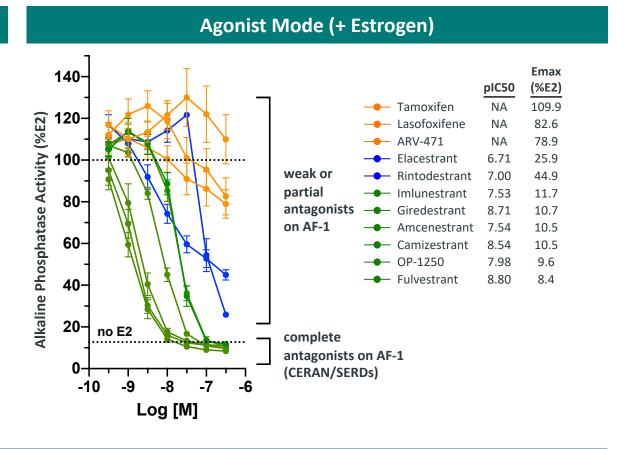
Estradiol (E2), the prototypical agonist of $ER\alpha$, degraded $ER\alpha$ in all five ER+ cell lines

In all cases, none of the compounds achieved full ER degradation; complete ER antagonism is independent from degradation and key to inactivating remaining ER receptor



CERAN/SERDs Inactivate Both AF1 & AF2 Activity, While SERM/SERDs Only Inactivate AF2

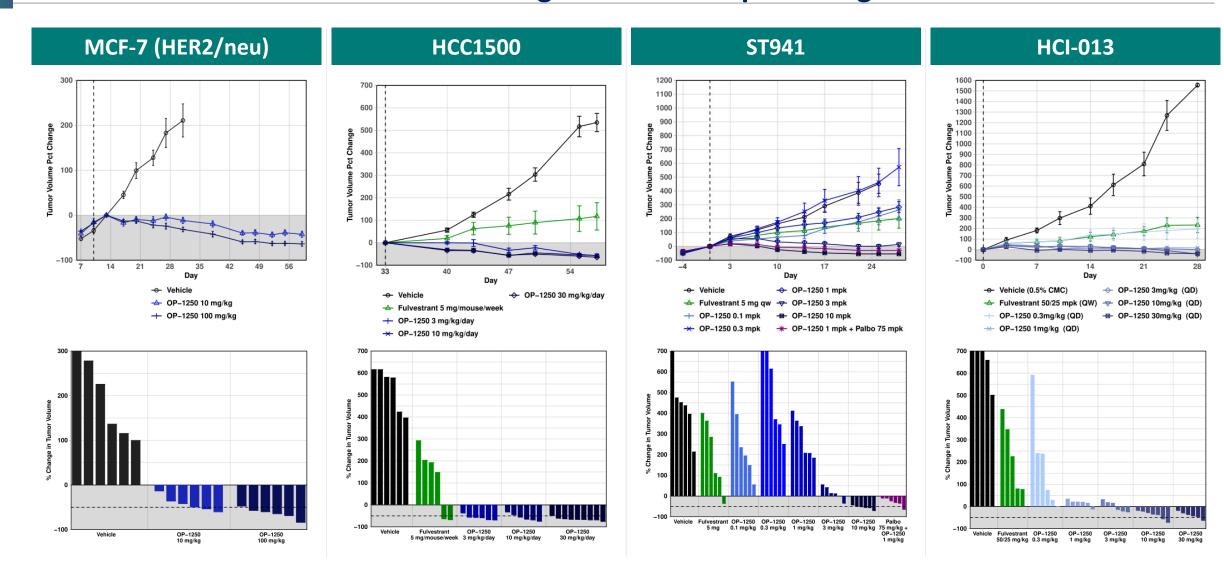




CERAN/SERDs completely inactivate AF1 activity of the estrogen receptor, while partial and strong agonists (SERM/SERDs) do not fully inhibit AF1 activity.



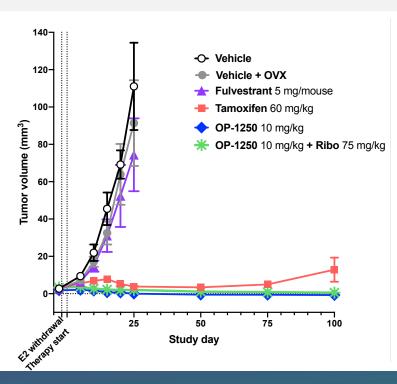
Xenograft Efficacy Studies: OP-1250 vs. Fulvestrant OP-1250 Demonstrates Tumor Shrinkage Across Multiple Xenograft Models

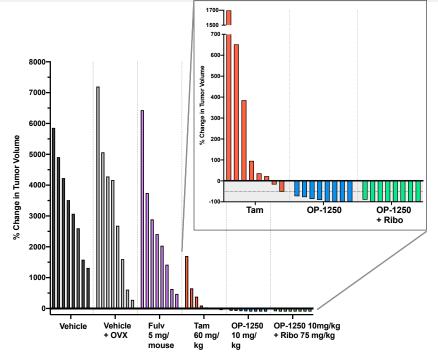


OP-1250 Has Demonstrated Activity in CNS Metastases Models

AACR 2021: Intracranial Breast Cancer Brain Metastases Xenograft Study

10 mg/kg OP-1250 is superior to tamoxifen, fulvestrant and ovariectomy in shrinking mutant ESR1-Y537S tumors in an intracranial model of ER+ breast cancer brain metastasis





Treatment	Endpoint	n
Vehicle	PD	8
PO, QD	SD	0
1 - 7	PR	0
	CR	0
Vehicle + OVX	PD	7
PO, QD	SD	1 0
, ,	PR	0
	CR	0
5 mg Fulvestrant	PD	8
sc, QW	SD	0
	PR	0
	CR	0
60 mg/kg Tamoxifen	PD	6
PO, QD	SD	1
	PR	
	CR	0
10 mg/kg OP-1250	PD	0
PO, QD	SD	0
	PR	4
	CR	4
10 mg/kg OP-1250 +	PD	0
75 mg/kg Ribociclib	SD	0
PO, QD	PR	0 1 7
	CR	7

Endpoint criteria: PD (progressed disease) >20% increase tumor size; PR (partial response) >30% decrease in tumor size; CR (complete response): no tumor observed; SD (stable disease): does not meet above criteria.

After 100 days, tumors in mice treated with OP-1250 remain small or undetectable while tumors in mice treated with fulvestrant and tamoxifen have started to grow.