

# Preliminary results from ERAS-007 plus palbociclib (palbo) in patients (pts) with KRAS/NRAS mutant (m) colorectal cancer (CRC) or KRASm pancreatic ductal adenocarcinoma (PDAC) in HERKULES-3 study: A phase 1b/2 study of agents targeting the mitogen-activated protein kinase (MAPK) pathway in pts with advanced gastrointestinal malignancies (GI cancers)

ERASCA™

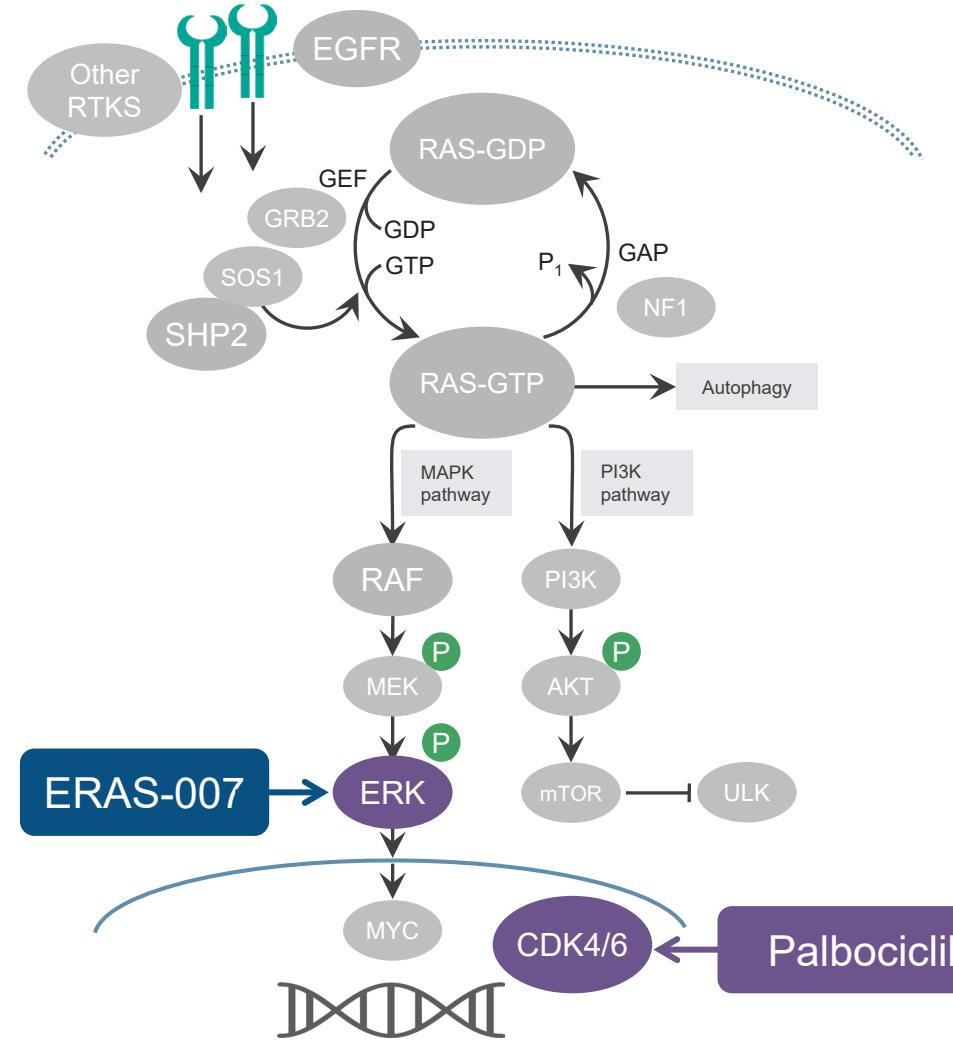
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Data Cut-off Date: 23MAR2023

## Background

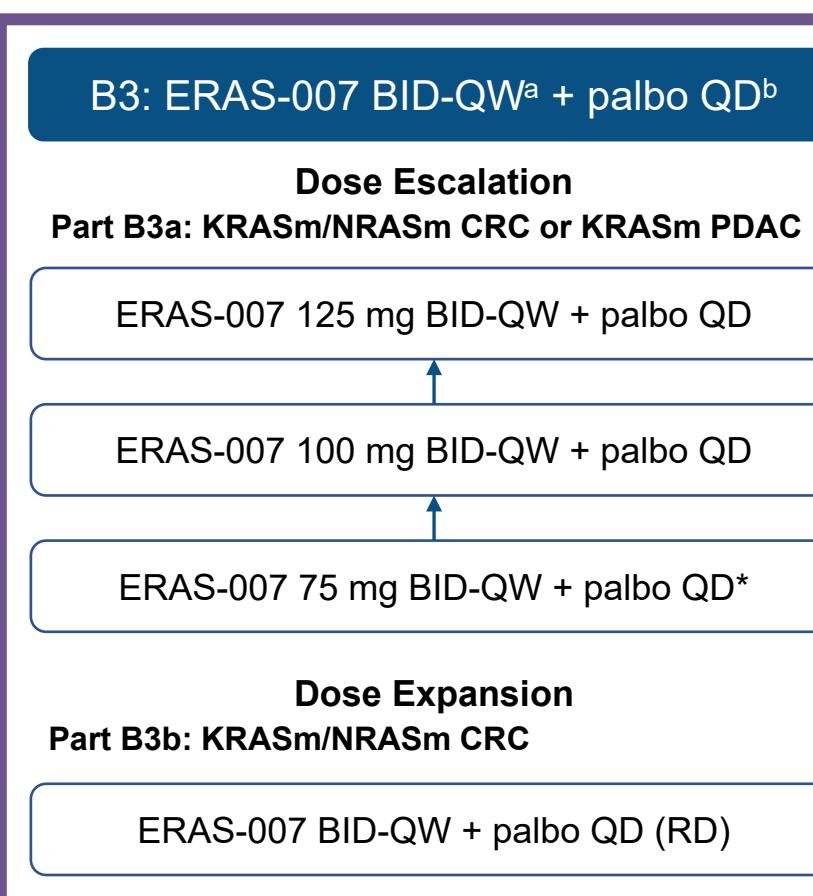


- The RAS/MAPK pathway is dysregulated in a broad range of cancers including colorectal cancer (CRC) and pancreatic ductal adenocarcinoma (PDAC), resulting in downstream activation of ERK1/2 and increased cellular proliferation
- ERAS-007 is a novel, orally bioavailable inhibitor of ERK1/2. Palbociclib (palbo) is an oral CDK4/6 inhibitor that inhibits cellular proliferation, an essential feature of tumor growth

- Dual inhibition of the RAS/MAPK pathway and CDK4/6 may synergistically induce G1-phase cell cycle arrest and block cell cycle progression. The combination of ERAS-007 and cell cycle inhibitors such as palbociclib could overcome compensatory mechanisms of resistance to RAS/MAPK inhibition alone in Kirsten rat sarcoma mutant (KRASm)/neuroblastoma rat sarcoma mutant (NRASm) CRC (occurring in ~50% of CRC)<sup>1</sup> and KRASm PDAC (occurring in >90% of PDAC)<sup>2,3</sup>
- Both in vitro and in vivo data exploring the combination of ERAS-007 and palbo in a panel of CRC and pancreatic CDX and/or PDX models have shown promising activity to support the potential combinatorial clinical benefit in RASm CRC and PDAC patients

## Methods

### Study Design



\*ERAS-007 75 mg BID-QW was used as a starting dose.  
ERAS-007 BID-QW: ERAS-007 oral twice a day on a single day each week; <sup>b</sup>palbo QD: palbociclib oral daily for 21 consecutive days followed by 7 days of a 28-day cycle.

BRaf: B-Raf proto-oncogene, serine/threonine kinase; CRC: colorectal cancer; KRASm: Kirsten rat sarcoma mutant; NRASm: neuroblastoma rat sarcoma mutant; PDAC: pancreatic ductal adenocarcinoma; RD: recommended dose.

### Primary Objectives:

- To evaluate the safety and tolerability of escalating doses of ERAS-007 BID-QW in Part B3a in pts with previously treated KRASm/NRASm CRC and KRASm PDAC
- To determine the maximum tolerated dose and/or recommended dose for ERAS-007 BID-QW plus palbociclib QD in Part B3a

- Majority of TRAEs observed are grade 1 or 2

## Results

### Enrollment and Baseline Characteristics

#### Analysis Populations, N (%)

	Safety Population*	Efficacy-Evaluable Population†
ERAS-007 BID-QW + palbo QD	46	34
75 mg BID-QW + palbo 75 mg QD	7 (100)	5 (71.4)
75 mg BID-QW + palbo 100 mg QD	2 (100)	2 (100)
100 mg BID-QW + palbo 100 mg QD	7 (100)	6 (85.7)
75 mg BID-QW + palbo 125 mg QD	14 (100)	9 (64.3)
100 mg BID-QW + palbo 125 mg QD	15 (100)	12 (80)
125 mg BID-QW + palbo 125 mg QD	1 (100)	0

\*Safety-evaluable population includes all patients who received ≥1 dose of ERAS-007. †Efficacy-evaluable population includes all safety-evaluable patients with a measurable disease at baseline and ≥1 post-dose response assessment.

#### Patient Status, N

	Safety Population	No. of Patients on Treatment*	No. of Patients in Survival Follow-up	No. of Patients Off Study
ERAS-007 BID-QW + palbo QD	46	8	14	24
75 mg BID-QW + palbo 75 mg QD	7	0	2	5
75 mg BID-QW + palbo 100 mg QD	2	0	0	2
100 mg BID-QW + palbo 100 mg QD	7	0	1	6
75 mg BID-QW + palbo 125 mg QD	14	3	6	5
100 mg BID-QW + palbo 125 mg QD	15	4	5	6
125 mg BID-QW + palbo 125 mg QD	1	1	0	0

\*Defined as patients on any study drug.

- Most patients discontinued the study due to death caused by disease progression or withdrawal by patient

#### Baseline Characteristics (Safety Population)

	All (ERAS-007 BID-QW + palbo QD) (N=46)
Age (years)	
Median	62
Min, max	35, 80
Sex, n (%)	
Male	26 (56.5)
Female	20 (43.5)
Race, n (%)	
Asian	3 (6.5)
Black or African American	6 (13.0)
White	33 (71.7)
Not reported	3 (6.5)
Missing	1 (2.2)
ECOG, n (%)	
0	19 (41.3)
1	26 (56.5)
2	1 (2.2)
Prior lines of systemic therapies	
Median	2.0
Min, max	1, 4
Primary tumor type, n (%)	
CRC*	22 (47.8)
PDAC	24 (52.2)

\*Four patients with CRC had NRAS mutations; the remaining CRC and PDAC patients had KRAS mutations.

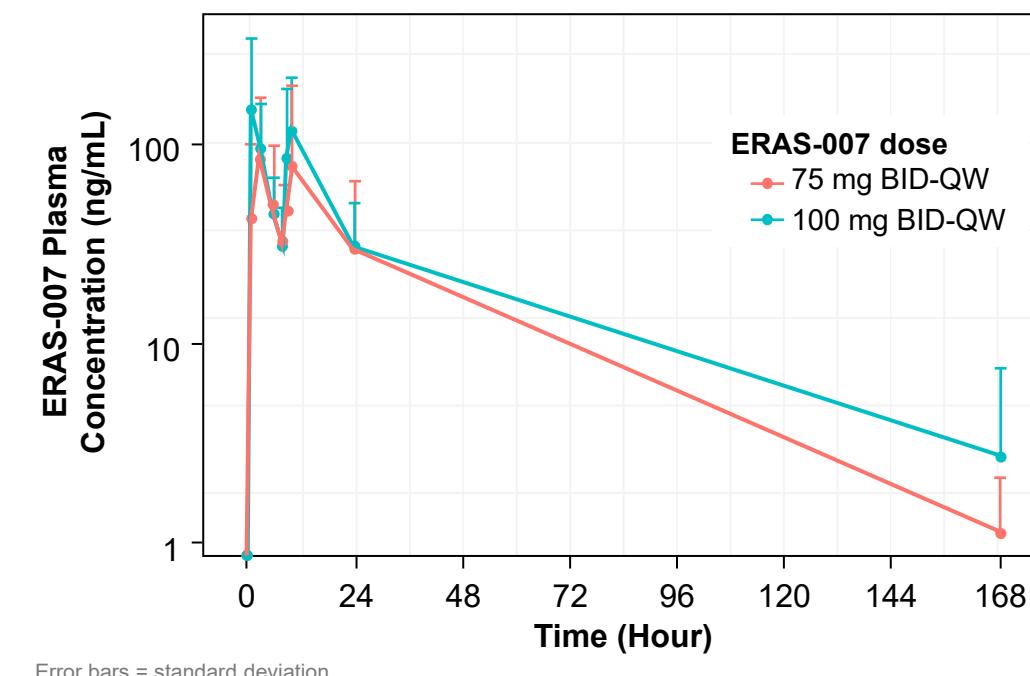
### Summary of Safety

- Overall data suggest that the TRAEs were reversible and manageable
- Four patients experienced 6 dose-limiting toxicities
  - ERAS-007 75 mg + palbociclib 125 mg (grade 3 bacteremia, N=1)
  - ERAS-007 75 mg + palbociclib 125 mg (grade 3 rash maculo-papular, N=1)
  - ERAS-007 100 mg + palbociclib 100 mg (grade 3 dermatitis acneiform, neutropenia and anemia, N=1)
  - ERAS-007 100 mg + palbociclib 125 mg (grade 3 thrombocytopenia, N=1)
- Two grade 5 treatment-emergent adverse events were reported; hemorrhage intracranial (unrelated to ERAS-007 75 mg BID-QW and palbociclib 75 mg QD) and bacteremia (related to ERAS-007 75 mg BID-QW and palbociclib 125 mg QD)

\*Reported after the data extraction.

### Summary of Pharmacokinetics

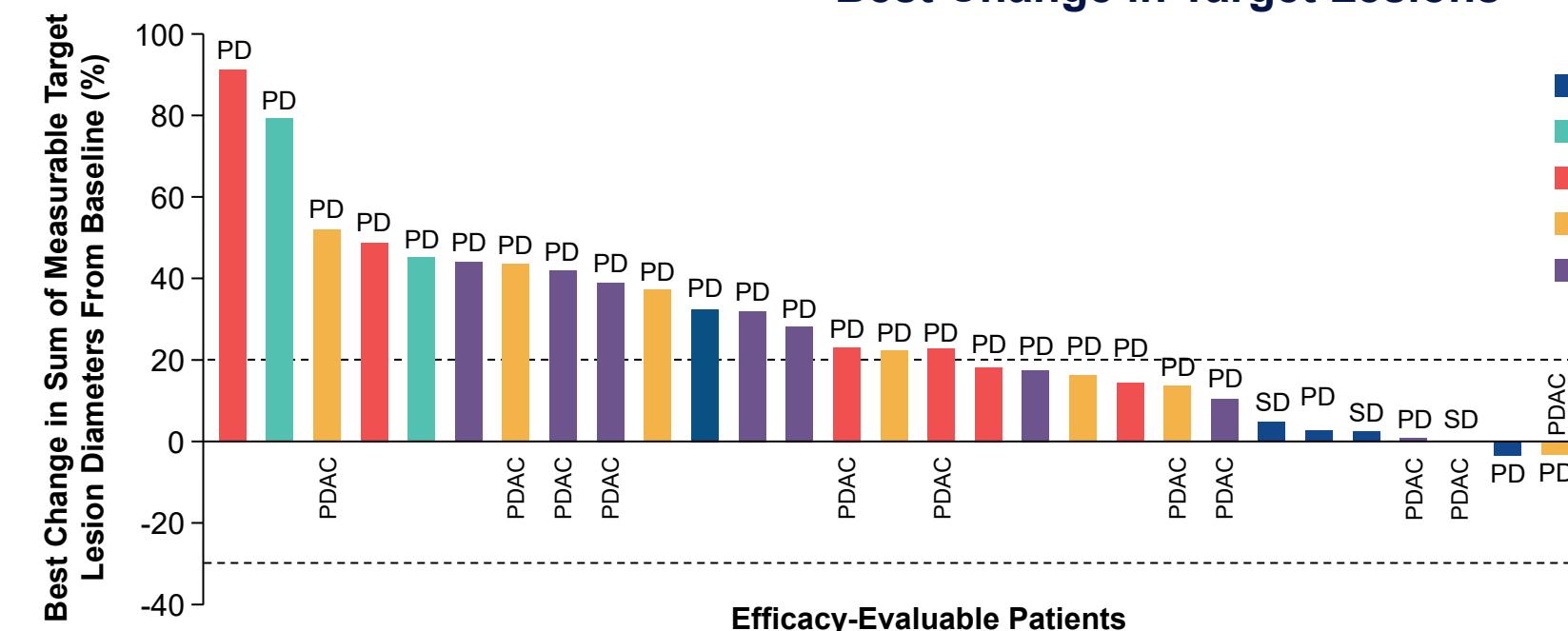
#### Mean ERAS-007 Concentration-Time Profiles Following the First Dose



Error bars = standard deviation.

- ERAS-007 exhibited rapid absorption with median peak plasma concentration reached approximately 3 hours post-dose; PK exposure generally increased in a dose-dependent manner
- Observed PK exposures of ERAS-007 and palbociclib when dosed in combination were generally comparable to those when dosed as monotherapy, suggesting no clinically significant drug-drug interactions between study drugs

### Best Change in Target Lesions



Response on the bar represents the best overall response (confirmation not required) based on investigator assessments.

### Duration of Treatment in Efficacy-Evaluable Patients

