ESMO 2019 466P

Interim Results from a Phase 1 Trial of SL-801, a Novel XPO1 Inhibitor, in Patients with Advanced Solid Tumors



Introduction and Highlights

- Felezonexor (SL-801) is a reversible XPO1 inhibitor that offers the potential for an improved safety profile / therapeutic window
- Regimen modified (Schedule A to B) to improve tolerability while maintaining dose intensity; 1 patient in Schedule B (n=7) experienced grade 3 weakness, cohort expanded, dose escalation continues
- One partial response (PR) in patient with heavily pretreated colorectal cancer with microsatellite stability and KRAS mutation
- Multiple cases of stable disease (SD) observed in heavily pretreated patients
- Pharmacokinetic (PK) analyses suggest dose-dependent increases in exposure; studies ongoing
- Ideal therapeutic dose not yet determined as dose escalation continues
- Further updates expected as Phase 1 trial continues to enroll

Background

Felezonexor (SL-801) Background

- Felezonexor is an orally administered, novel small molecule XPO1 (Exportin 1) inhibitor
- XPO1 is a key nuclear transport oncogene overexpressed in a variety of cancers
- Inhibition of XPO1 has been clinically validated in multiple cancer types
- The US FDA recently approved an XPO1 inhibitor in patients with multiply relapsed or refractory MM⁺ Felezonexor demonstrated potent in vitro and in vivo activity against a wide array of solid and hematologic cancer models
- Felezonexor reversibly inhibits XPO1 offering the potential for a favorable therapeutic window
- Results from the ongoing Phase 1 trial of felezonexor monotherapy in patients with advanced solid tumors (NCT#02667873) are reported here

XPO1 Background

XPO1 is the key mediator of nuclear-cytoplasmic transport and is involved with the export of more than 200 nuclear proteins, including^{1,2}:

- tumor suppressor proteins (p53, APC, Rb, BRCA1, FOXO family proteins)
- cell cycle inhibitors (p21/CIP1, p27/KIP1)
- transcription factors (ATF2)
- oncogenic proteins (CIP2A, Erk) immune response regulators (IkBa)
- molecular chaperone proteins (hsp90)
- XPO1 also exports specific subsets of messenger ribonucleic acid (mRNA) via export adaptor proteins³
- Mislocalization of a nuclear protein into the cytoplasm can render it ineffective as a tumor suppressor⁴ XPO1 is overexpressed in various solid tumors, including breast, cervical, ovarian, and pancreatic cancers, glioma, and osteosarcoma, as well as hematologic malignancies, including acute myeloid leukemia, chronic lymphocytic leukemia, multiple myeloma, and lymphoma^{1,5}
- XPO1 overexpression has been associated with poor prognosis, including being correlated with tumor grade, size, metastases, resistance to chemotherapy, as well as shorter progression-free survival (PFS) and overall survival (OS)¹

^TSelinexor US FDA approved for treatment of adult patients with relapsed or refractory multiple myeloma who have received at least 4 prior therapies

Mechanism of Action and Rationale

XPO1-medicated nuclear transport | XPO1 inhibition by Felezonexor

. • XPO1 is a clinically-validated target in multiple elezonexor has been shown to induce cancer types cell cycle arrest and apoptosis in cancer " 9 ton The US FDA recently approved an XPO1 cells and is cytotoxic against solid and hematologic cancers inhibitor • Felezonexor is a reversible XPO1 inhibitor • Offering the potential for improved safety profile inhibits the / therapeutic window binding of nuclear Potent preclinical in vitro and in vivo activity against multiple cancer types molecule drug candid reversibly inhibits is, including tumor suppressors, cell cycle XPO1-dependent nuclea tors, and transcription factors SL-801 demonstrates potent anti-tumor activity in animal models, across wide array of solid and hematologic cance SL-801 has potent in vitro activity against multiple solid and hematologic cancers SL-801 is a reversible inhibitor of XPO



	0	Most Common Treatment Related Adverse Events (TRAEs, ≥ 15%)						
Study Design		Preferred Term	All Grades n (%)		TRAEs n (%)			
Study	Design		TRAEs	All AEs	G1 & 2	G3	G4	G5
 Stage 1 (Dose- escalation) - Enrollment Ongoing Advanced solid tumors 	 Stage 2 (Expansion) - Not started yet Disease-specific cohorts (up to 4 cohorts) 	Nausea	31 (69)	32 (71)	27 (60)	4 (9)		
 Felezonexor orally administered; Once daily dosing – Dose escalation (mg/day) 	 ~20 patients per cohort Felezonexor orally administered 	Vomiting	24 (53)	31 (69)	23 (51)	1 (2)		
 5, 10, 20, 30, and by 5 mg increments thereafter 	 Dose and regimen selected from Stage 1 Primary endpoints: 	Fatigue	20 (44)	24 (53)	18 (40)	2 (4)		
 Standard 3x3 design Regimen: 	○ ORR	Decreased appetite	11 (24)	15 (33)	11 (25)			
Schedule A (original): D1-4 and D8-11 of a 21-day cycle	 Safety profile Secondary endpoints: 	Diarrhea	10 (22)	14 (31)	8 (17)	2 (4)		
 Schedule B (revised): D1-2, 8-9, 15-16 and 22-23 of a 28-day cycle 	 CR, DoR, PFS, OS 							
 Primary endpoints: Safety and tolerability DLT and MTD 		¹ Schedule A was revised ² In Schedule B, one grad			U U		ntly enrolling	
Secondary endpoints:								
 Pharmacokinetics Efficacy (ORR, DCR, DoR, PFS and OS) 								
Abbreviations: DLT = dose-limiting toxicity; MTD = maximum tolerated dose; ORI response; PFS = progression-free survival; OS = overall survival; CR = complete		Schedule A data as of 06-May-19 Additionally, there was a one grad reported at 10 mg/day dose level	de 3 TRAE of hypop			/ dose level and or	ne grade 3 TRAE	i of neutropenia

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	sion / Ex		
elect inclusion criteria			
nistologic evidence Measurable disease and eva ECOG PS of 0-2 Adequate organ function, ind - Creatinine ≤1.5x ULN, hepatic metastases), p Adequate hematologic funct	aluable by RECIST 1. cluding: albumin ≥ 2.5 g/dL, b prothrombin time ≤ 1.5 ion, including: ≥ 8 g/dL (w/o RBC tran	vilirubin ≤1.5x ULN, AST/ALT ≤2.5x ULN (≤5x x ULN (and partial thromboplastin time ≤1.5x nsfusions within prior 14 days), platelet count	for ULN)
elect exclusion criteria			
chemotherapy-related neuro considered clinically significa Chemotherapy, external-bea dose Prior treatment with felezone Active secondary malignanc	pathy, and G2-3 lab a ant by PI) am radiation or other s exor or another drug the sy that may confound a ascular disease, uncom ningeal metastases y for a prior organ tran	m prior anticancer therapies (excluding G2 abnormalities if not associated with symptoms systemic anticancer therapy within prior 28 da hat inhibits XPO1/CRM1 pathway assessment of study endpoints ntrolled clinically significant pulmonary disea	ays to first
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Dosing, Safety and Tolerability

Dosing

hort	Dose (mg/day)	Schedule	n	Cohort	Dose (mg/day)	Schedule	
1	5	А	3	7	45	А	
2	10	А	4	8	50	А	
3	20	A	3	9	55	А	
_		_	-	10	60	А	
4	30	A	6	11	65	А	
5	35	А	3	12	70	B1	
6	40	А	5	13	75	В	

Safety and Tolerability Treatment Related Adverse Events (n=45 patients)

(Schedule A only)

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As of September 1st, 2019. Investigator-assessed data: unaudite Time from C1D1 to end of treatment or ongoing

Neuroendo

5 mg

One patient did not have their systemic therapy history available

Days on Liver Les

Spleen I

% Char

Overview of Disease Control

				Sum of target lesions (measurable)				
Dose	Tumor Histology	Best Response	No. of lesions	Screening (mm)	Best Response (mm)	% Δ of target lesions	Time on treatment (wks)	Last dose received
'0 mg	CRC ¹	PR	2	39.4	18.6	-53%	18.3	C6
80 mg	Neuro-endo	SD	2	44	35	-20%	17.8	C6
60 mg	Renal	SD	3	96	82	-15%	18.3	C6
80 mg	GI adenocarcinoma	SD	2	40	34	-15%	20.9	C7
0 mg	BCC	SD	1	47.5	40.9	-14%	46.9	C14
0 mg	Breast	SD	5	192.9	174.6	-9%	19.1	C6
55 mg	Paraganglioma	SD	5	155.4	149.6	-4%	11.7	C3
5 mg	CRC ¹	SD	3	76	75	-1%	17.8	C6
85 mg	Biliary	SD	2	182.4	n/a	n/a	12.1	C4
60 mg	NSCLC ¹	SD	1	90.4	n/a	n/a	14.3	C4
0 mg	SCC	SD	2	38	38	0	9.1	C4
5 mg	GI Adeno	SD	3	184	187	+1%	11.7	C4

As of 01-Sep-2019. Investigator-assessed data; unaudited PR = Partial Response; SD = stable disease; (-) = reduction; (+) = increase ¹Patient with KRAS mutation present at screening

Patient ongoing, still receiving felezonexor Tumor shrinkage > 10% Tumor shrinkage > 30% (PR)

Discontinued, patient death, unrelated to felezonexor

Discontinued, consent withdrawn

● • Discontinued, AE



Treatment Duration¹

Partial Response (PR) in Heavily-Pretreated CRC with MSS and KRAS Mutation

74 year old male with metastatic, microsatellite stable (MSS), KRAS-mutant colorectal cancer that has spread to the lung

and peritoneum Treatment history includes surgery, radiation, and multiple rounds of chemotherapy including fluorouracil, leucovorin, oxaliplatin, bevacizumab, capecitabine, and irinotecan

Received felezonexor at 70 mg, adjusted to 65 mg due to elevated creatinine

Achieved partial response (PR) while receiving felezonexor by RECIST criteria; CT scans demonstrated serial reductions in the two target lesions

53% tumor size reduction (39.4 \rightarrow 18.6 mm) during most recent follow-up scan

Response evolved into PR after 2 cycles; currently receiving 6th cycle (18.3+ weeks)

Treatment with 65mg felezonexor ongoing (cycle 6); Next staging pending

	Baseline	Follow up 1	Follow up 2	Follow up 3
n Treatment:		55	111	139
esion Measurement:	22.6 x 11.6 mm	17.7 x 7.4 mm	15.7 x 5.6 mm	13.2 x 5.8 mm
Lesion Measurement:	16.8 x 9.8 mm	10.5 x 9.4 mm	5 x 5.0 mm	5.4 x 5.0 mm
ange from Baseline:		-28.43%	-47% PR	-53% PR (confirmed)



Disclosures: Wang: Stemline - research grant/funding; Chiroean: Stemline - research grant/funding; Courtney: Stemline research grant/funding; Qi: Stemline - employment, equity ownership; Olguin: Stemline - employment, equity ownership; Bullington: Stemline - employment, equity ownership; Sardone: Stemline - employment, equity ownership; Hoberman: Stemline - employment, equity ownership; Chen: Stemline - employment, equity ownership; Brooks: Stemline - employment, equity ownership; Bauer: Stemline - research grant/funding; All other authors have declared no conflicts of interests Disclaimer: Copies of this poster obtained through QR (Quick Response) and/or text key codes are for personal use only and may not be reproduced without written permission of the authors. This study was sponsored by Stemline Therapeutics