2025 ESMO BREAST CANCER

Annual Congress

PHASE I STUDY OF IZA-BREN (BL-B01D1), AN EGFR' & HER3 BISPECIFIC ANTIBODY-DRUG CONJUGATE (ADC), IN PATIENTS WITH LOCALLY ADVANCED OR METASTATIC BREAST CANCER (BC)

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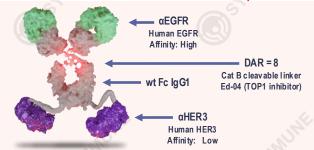
DECLARATION OF INTERESTS

The author declares no financial or non-financial conflicts of interest related to this presentation.



PROJECT OVERVIEW

iza-bren, an EGFR × HER3 bispecific ADC

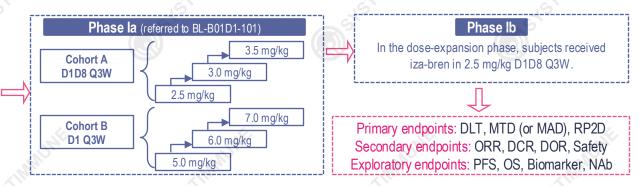


- iza-bren is a potential first-in-class (FIC) ADC consisting of an EGFR x HER3 bispecific antibody conjugated to a novel topoisomerase I inhibitor payload (Ed-04) via a stable tetrapeptide-based cleavable linker.
- Results for safety, tolerability and preliminary efficacy in previously treated patients with Her2-negative[†] (HER2-) breast cancer in phase I study (BL-B01D1-104) are presented.
- Clinical trial information: NCT05470348.

Study Design

Eligibility criteria

- Locally advanced or metastatic breast cancer and other solid tumors
- Previously treated with standard therapy
- ECOG PS 0-1
- Measurable disease per RECIST v1.1
- Adequate organ and marrow function



†HER2- defined as IHC 0, 1+, or 2+/ISH-.

wt: wild type; Cat B: cathepsin B; TOPI: Topoisomerase I; ECOG PS: Eastern Cooperative Oncology Group performance status; RECIST: Response Evaluation Criteria in Solid Tumors; DLT: Dose Limiting Toxicity; MTD: Maximum Tolerated Dose; MAD: Maximum Administered Dose; RP2D: Recommended Phase 2 Dose; ORR: Overall Response Rate; DCR: Disease Control Rate; DOR: Duration of Response; PFS: Progression Free Survival; OS: Overall Survival; Nab: Neutralizing antibody



BASELINE CHARACTERISTICS

	HER2- BC patients at 2.5 mg/kg D1D8 Q3W						
	S HE	R2 zero (N = 5	55)	HER2 1+/2+ (N = 66)	(5)	Total (N=121)	
Age, median (range)	-6	51.0 (26.0, 71.0	1) _ 6	54.5 (30.0, 75.0)		54.0 (26.0, 75.0)
ECOG-PS Score, n (%)							
0		9 (16.4)		5 (7.6)		14 (11.6)	
1		46 (83.6)		61 (92.4)		107 (88.4)	
Brain metastasis at baseline (Y), n (%)		3 (5.5)		7 (10.6)		10 (8.3)	
Prior lines of therapy, n (%)							
0L		0		1 (1.5)		1 (0.8)	
1L 🕢		9 (16.4)		9 (13.6)		18 (14.9)	
2L		13 (23.6)		10 (15.2)		23 (19.0)	
≥ 3L		33 (60.0)		46 (69.7)		79 (65.3)	
Prior lines of chemotherapy, n (%)							
0L		7 (12.7)		6 (9.1)		13 (10.7)	
1L 9		17 (30.9)		23 (34.8)		40 (33.1)	
2L		16 (29.1)		16 (24.2)		32 (26.4)	
≥ 3L		15 (27.3)		21 (31.8)		36 (29.8)	
Prior PBC, n (%)		21 (38.2)		26 (39.4)		47 (38.8)	
Prior paclitaxel, n (%)		49 (89.1)		62 (93.9)		111 (91.7)	
Prior anti-PD(L)-1, n (%)		11 (20.0)		16 (24.2)		27 (22.3)	
Prior CDK4/6 inhibitors, n (%)		20 (36.4)		33 (50.0)		53 (43.8)	
Prior ADC, n (%)	<	1 (1.8)		10 (15.2)		11 (9.1)	
HER2 Status, n (%)							
0		55 (100.0)		0		55 (45.5)	
1+		0		35 (53.0)		35 (28.9)	
2+/ISH-	72.	0	72,	31 (47.0)	19	31 (25.6)	
HR Positive, n (%)		29 (52.7)		48 (72.7)		77 (63.6)	

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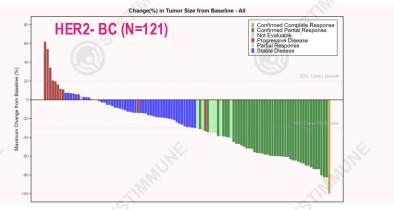
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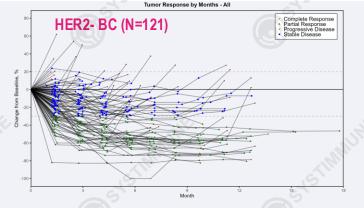
PRELIMINARY EFFICACY IN HER2- BC

Septiment of the septim	HER2 zero (N = 55)	HER2 1+/2+ (N = 66)	Total (N = 121)	
Prior lines of therapy, median (range)	3 (1-11)	3 (0* -13)	3 (0 [*] -13)	
BOR, n				
CR/PR	23	28	51	
confirmed	20	24	44	
SD	21	25	46	
PD	8	5	13	
NE S	3	8	11	
ORR, %	41.8	42.4	42.1	
cORR, %	36.4	36.4	36.4	
DCR, %	0.08	80.3	80.2	
mPFS (mo) (95% CI)	8.3 (4.8,12.7)	6.3 (5.1, 8.3)	6.9 (5.5, 8.4)	
mDOR (mo) (95% CI)	11.5 (5.4, NR)	9.7 (5.5, NR)	9.7 (5.8, 11.7)	

Efficacy analysis was conducted based on HER2- BC patients who received at least one dose of iza-bren (N=121). The median follow-up is 11.7 months.

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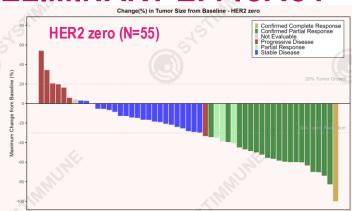


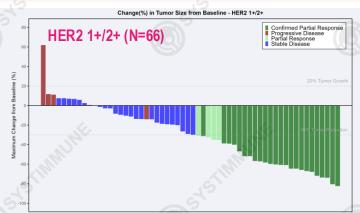


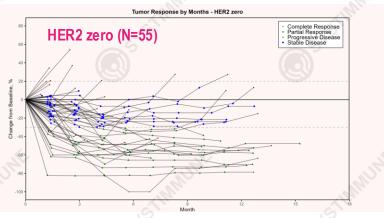
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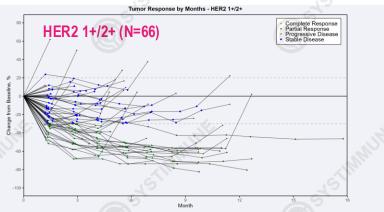
^{*: 1} patient without standard treatment due to poor economic condition.

PRELIMINARY EFFICACY









Data cutoff: September 30, 2024

MOST COMMON TRAE IN HER2- BC PATIENTS

45,	Total (N	l = 121)
Preferred Term (PT), n (%)	All Grade	Grade ≥3
Hematological AE		
Anemia	109 (90.1)	53 (43.8)
Leukopenia	109 (90.1)	55 (45.5)
Neutropenia	105 (86.8)	66 (54.5)
Thrombocytopenia	87 (71.9)	37 (30.6)
Non-Hematological AE		
Nausea	74 (61.2)	6 (5.0)
Stomatitis	64 (52.9)	4 (3.3)
Vomiting	58 (47.9)	1 (0.8)
Asthenia	57 (47.1)	13 (10.7)
AST increased	56 (46.3)	0
ALT increased	54 (44.6)	0
Hypertriglyceridemia	45 (37.2)	2 (1.7)
Hypokalemia	45 (37.2)	6 (5.0)
Alopecia	44 (36.4)	0
Decreased appetite	43 (35.5)	1 (0.8)

- ☐ The most common TRAEs were hematological toxicities.
- The non-hematological toxicities were mostly Grade 1 or 2.
- One treatment related death due to febrile neutropenia.
- No ILD was observed. No new safety signals were observed.
- Grade 3 and above TRAEs were able to be effectively managed with standard supportive measures, as demonstrated by the low rate (5.0%) of TRAE leading to drug discontinuation.

TRAE: treatment related adverse event



CONCLUSIONS

- In heavily pre-treated locally advanced or metastatic HER2- BC, iza-bren has demonstrated encouraging efficacy with a manageable safety profile regardless of HER2 expression.
- Phase III studies of iza-bren in TNBC and HR+HER2-BC are ongoing (NCT06382142 & NCT06343948).
- ☐ Global phase II/III study of iza-bren in BC is ongoing (NCT06926868).

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