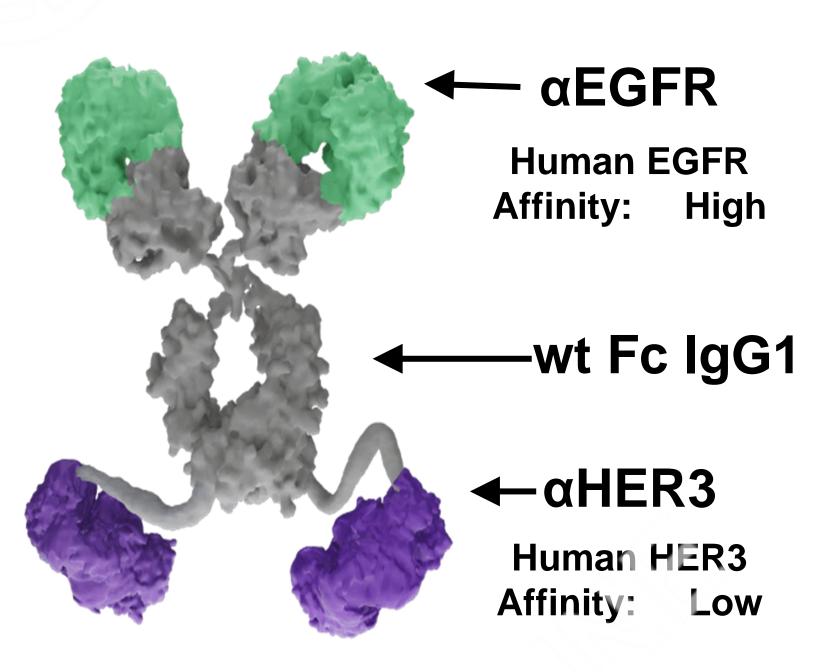


**Abstract Number:** 9025

# SI-B001 plus chemotherapy in patients with locally advanced or metastatic EGFR/ALK wild-type non-small cell lung cancer: A phase II, multicenter, open-label study

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# Background



- SI-B001 (izalontamab): a novel EGFR×HER3 bispecific antibody.
- Currently, 6 phase II clinical studies of SI-B001, either alone or in combination with chemotherapy, are being conducted in different epithelial carcinomas. The indication in this study (SI-B001-201) is EGFR/ALK wild-type NSCLC.
- Clinical trial information: NCT05020457

# Objective

 To investigate the efficacy and safety of SI-B001 in combination with chemotherapy in patients with locally advanced or metastatic EGFR/ALK wildtype NSCLC.

- This phase II study enrolled patients with locally advanced or metastatic EGFR/ALK wild-type NSCLC who had failed first-line anti-PD-1/L1 therapy, with or without platinum-based chemotherapy (PBC).
- This study consisted of three cohorts: Cohort A pts received SI-B001 plus PBC as second-line treatment after failure to first-line anti-PD-1/L1 antibody monotherapy; Cohort B pts received SI-B001 plus docetaxel as second-line treatment after failure to first-line anti-PD-1/L1 therapy plus PBC; Cohort C pts received SI-B001 plus docetaxel as third-line or higher treatment after failure to first-line anti-PD-1/L1 therapy and PBC.
- This study evaluated SI-B001 in three distinct dosing schedules: Schedule 1 (16+9mg/kg once weekly), Schedule 2 (14mg/kg on Days 1 and 8 every 3 weeks), and Schedule 3 (21+12mg/kg once weekly).
- The primary endpoints of the study were to determine the objective response rate (ORR) in evaluable patients and to identify the optimal dose. The secondary endpoints included assessment of progression-free survival (PFS), disease control rate (DCR), duration of response (DOR), and safety.

# Acknowledgments

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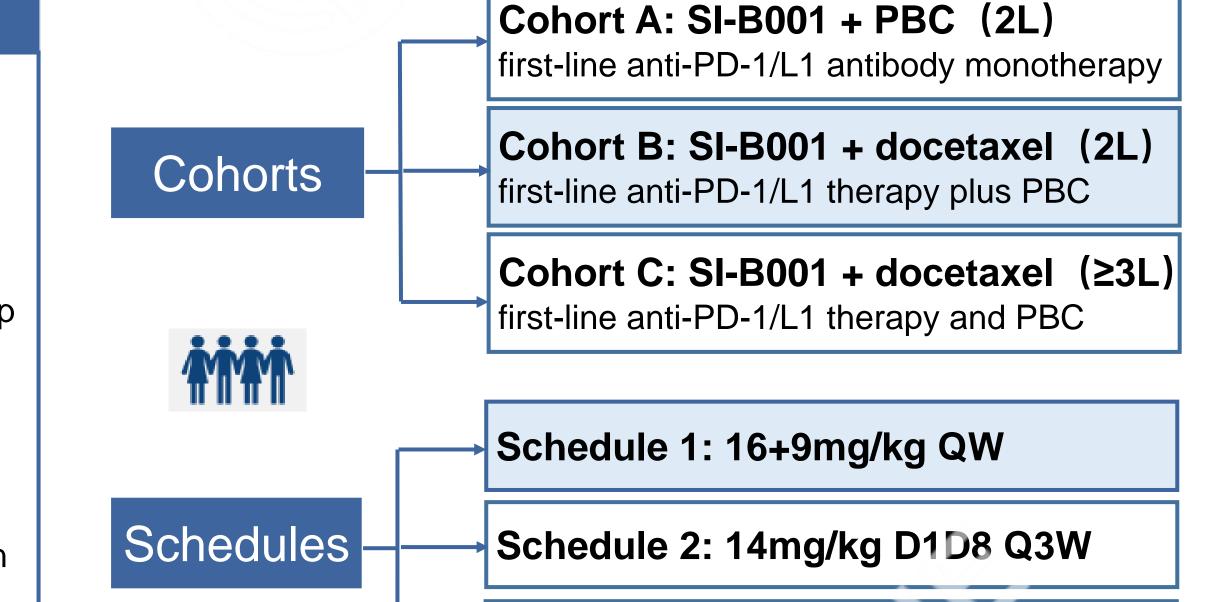
Blair Renshaw. Jahan Salar Khalili, Sa Xiao, Yi Zhu. Anti-tumor efficacy of SI-B001, a novel EGFR × HER3 bispecific antibody, against EGFR-driven epithelial tumors alone or in combination with paclitaxel and carboplatin. Cancer Res (2023) 83 their contributions. (7\_Supplement): 6309.

References

# Study Design

## Eligibility criteria

- Locally advanced or metastatic EGFR/ALK wild-type NSCLC Previously treated with anti-PD-1/L1
- Docetaxel-Naïve
- Eastern Cooperative Oncology Group performance status of 0-1
- At least one measurable lesion per RECIST v1.1 No autoimmune, inflammatory
- illnesses
- Adequate organ and marrow function Either no brain metastases or stable brain metastases at screening



Primary endpoints: ORR, optimal dose for combination Secondary endpoints: PFS, DCR, DOR, safety

# **Patients**

 As of the first data cutoff (Nov 11, 2022), 55 patients were enrolled, including 1 pt in Cohort A, 45 pts in Cohort B, 8 pts in Cohort C, and 1 pt based on the investigator's discretion. The data and analysis presented in this poster are based on the updated follow-up data as of April 17, 2023.

### Table 1. Patient demographics

	ALL	Cohort-A	Cohort-B	Cohort-C	Other		
	(N=55)	(N=1)	(N=45)	(N=8)	(N=1)		
Age (Median, Range)							
	61.0 (33.0 - 76.0)	57.0 (57.0 - 57.0)	61.0 (33.0 - 76.0)	63.5 (42.0 - 69.0)	64.0 (64.0 - 64.0)		
Weight (Mean,	Range)						
	62.5 (44.0 - 82.0)	60.4 (60.4 - 60.4)	62.2 (44.0 - 82.0)	63.2 (52.5 - 79.0)	71.8 (71.8 - 71.8)		
BMI (Mean, Range)							
	22.9 (17.5 - 30.3)	22.7 (22.7 - 22.7)	22.6 (17.5 - 30.1)	23.9 (20.5 - 30.3)	28.4 (28.4 - 28.4		
BSA (Mean, Range)							
	1.7 (1.4 - 2.0)	1.7 (1.7 - 1.7)	1.7 (1.4 - 2.0)	1.7 (1.5 - 2.0)	1.8 (1.8 - 1.8)		
Smoking History							
Never	11/55 (20%)	0/1 (0%)	9/45 (20%)	2/8 (25%)	0/1 (0%)		
Previous	38/55 (69%)	1/1 (100%)	32/45 (71%)	4/8 (50%)	1/1 (100%)		
Current	6/55 (11%)	0/1 (0%)	4/45 (9%)	2/8 (25%)	0/1 (0%)		
UNK	0/55 (0%)	0/1 (0%)	0/45 (0%)	0/8 (0%)	0/1 (0%)		
ECOG							
0	6/55 (11%)	0/1 (0%)	4/45 (9%)	2/8 (25%)	0/1 (0%)		
1	48/55 (87%)	1/1 (100%)	40/45 (89%)	6/8 (75%)	1/1 (100%)		
UNK	1/55 (2%)	0/1 (0%)	1/45 (2%)	0/8 (0%)	0/1 (0%)		

• The most common Grade ≥3 treatmentrelated adverse events (TRAEs) were neutropenia (15%), myelosuppression (13%), and leukopenia (9%).

Schedule 3: 21+12mg/kg QW

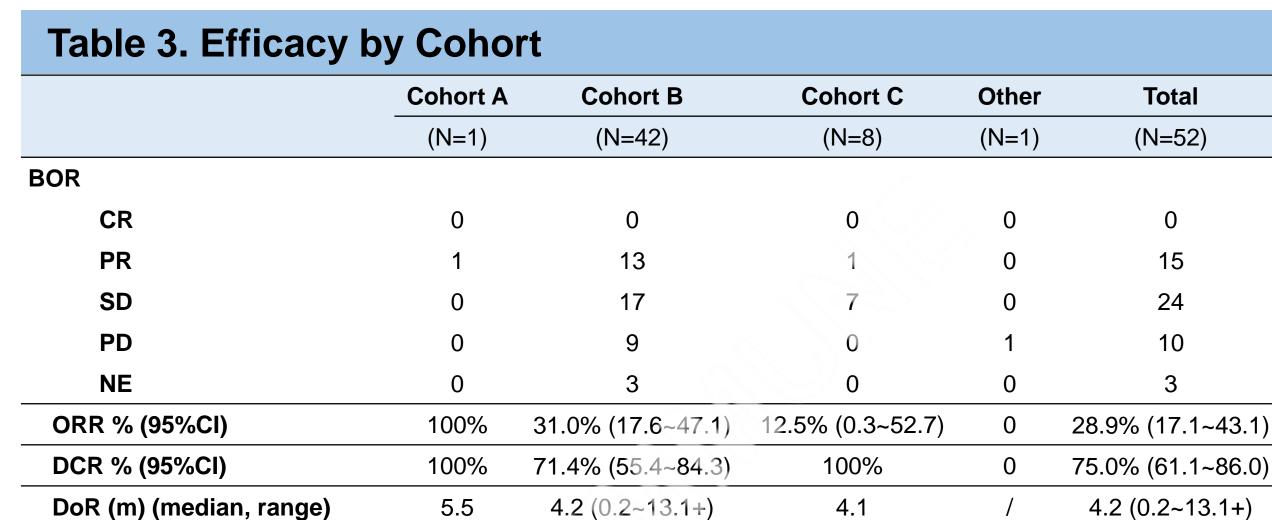
No drug-related death was observed.

### **Table 2. TRAE Summary (≥G3 occurred)**

SI-B001 plus chemotherapy (N=55)

	Cr Boot plas enemotrolapy (14-00)						
PT Term	G1	G2	G3	G4	All Grade		
Rash	20 (36%)	10 (18%)	3 (5%)		33 (60%)		
Mouth ulceration	6 (11%)	7 (13%)	1 (2%)		14 (25%)		
Leukopenia	6 (11%)	2 (4%)	5 (9%)		13 (24%)		
Anemia	6 (11%)	5 (9%)	2 (4%)		13 (24%)		
Pyrexia	9 (16%)	3 (5%)	1 (2%)		13 (24%)		
Neutropenia	4 (7%)		7 (13%)	1 (2%)	12 (22%)		
Diarrhea	8 (15%)	3 (5%)	1 (2%)		12 (22%)		
Myelosuppression	1 (2%)	2 (4%)	2 (4%)	5 (9%)	10 (18%)		
Paronychia	5 (9%)	2 (4%)	1 (2%)		8 (15%)		
Hypokalemia	3 (5%)	2 (4%)	2 (4%)		7 (13%)		
Dermatitis acneiform	6 (11%)		1 (2%)		7 (13%)		
Pneumonia		2 (4%)	4 (7%)		6 (11%)		
Asthenia	3 (5%)	2 (4%)	1 (2%)		6 (11%)		
Lymphopenia	3 (5%)		2 (4%)		5 (9%)		
Chest discomfort	2 (4%)	2 (4%)	1 (2%)		5 (9%)		
Hypersensitivity			4 (7%)		4 (7%)		
Hypoaesthesia	1 (2%)		1 (2%)		2 (4%)		
Respiratory failure	1 (2%)		1 (2%)		2 (4%)		
Cardiomyopathy			1 (2%)		1 (2%)		
Gastritis			1 (2%)		1 (2%)		
Soft tissue infection			1 (2%)		1 (2%)		
Heart rate increased			1 (2%)		1 (2%)		
Interstitial lung disease			1 (2%)		1 (2%)		
Tachypnoea			1 (2%)		1 (2%)		
Cardiac failure				1 (2%)	1 (2%)		
Septic shock				1 (2%)	1 (2%)		

- Among the 55 enrolled pts, 52 were evaluable for efficacy; ORR (n/N, [95%CI]) was 28.9% (15/52, [17.1, 43.1]), DCR was 75.0% (39/52, [61.1, 86.0]) (Table 3).
- In Cohort B, 42 pts were evaluable for efficacy. Among them, 23 were treated on schedule 1 (16+9mg/kg, QW), the ORR was 43.5% (10/23, [23.2, 65.5]) and the DCR was 69.6% (16/23, [47.1, 86.8]) (Table 4).
- Among the 23 evaluable pts in Cohort B treated on schedule 1 (16+9mg/kg, QW), 19 had no actionable genomic alterations (AGA), the ORR was 47.4% (9/19, [24.5, 71.1]), the DCR was 73.7% (14/19, [48.8, 90.9]), and the mPFS was 7.2m (Table 5, Figure 1-3).



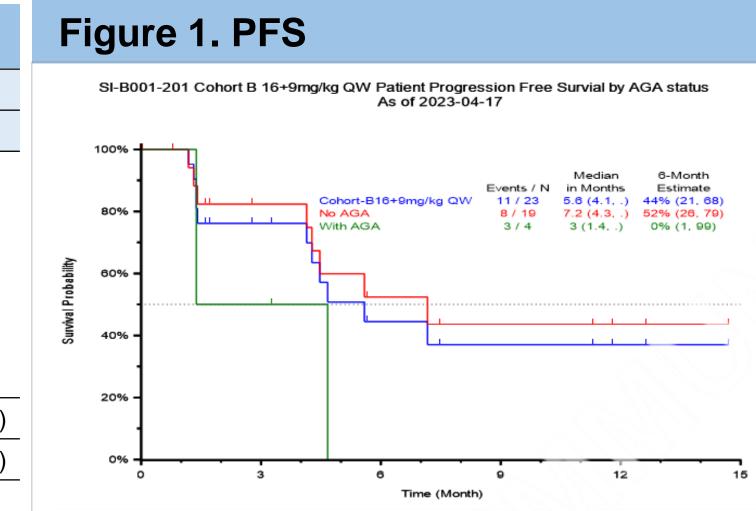
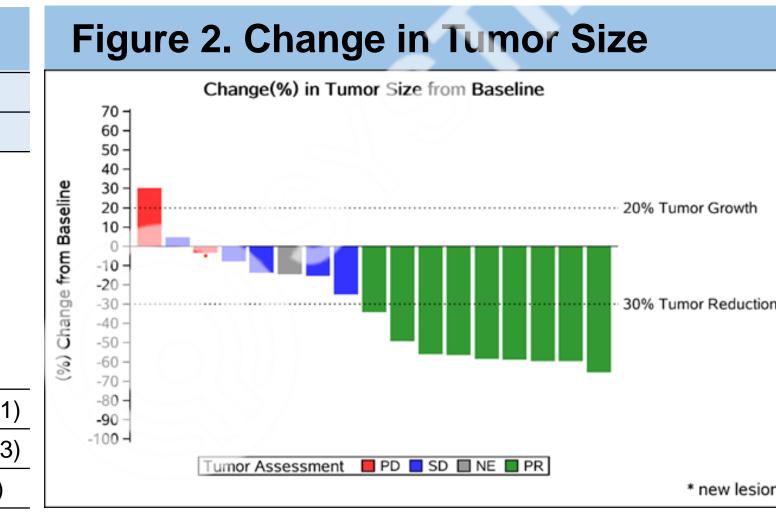
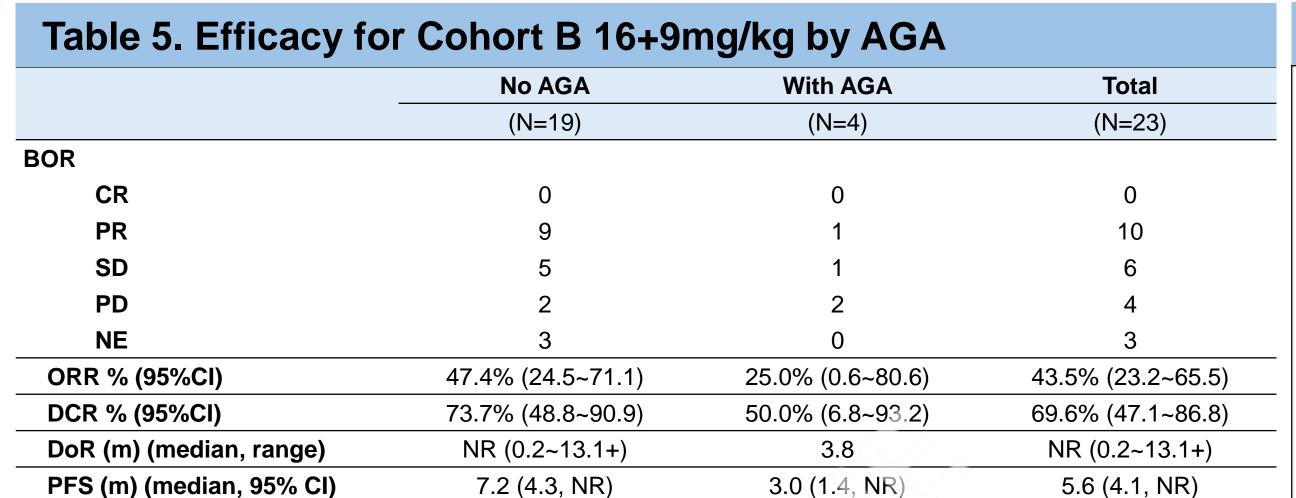
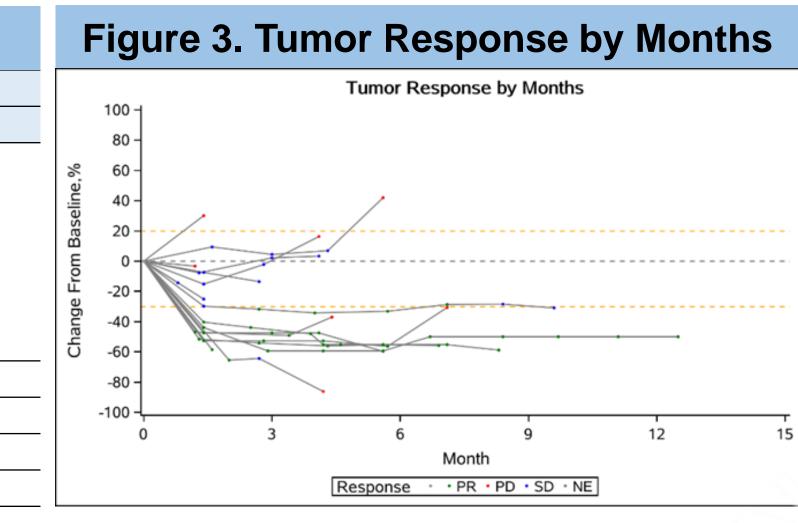


Table 4. Efficacy for Cohort B by dose									
	21+12mg/kg QW	14mg/kg D1D8 Q3W	16+9mg/kg QW	Total					
	(N=1)	(N=18)	(N=23)	(N=42)					
BOR									
CR	0	0	0	0					
PR	0	3	10	13					
SD	1	10	6	17					
PD	0	5	4	9					
NE	0	0	3	3					
ORR % (95%CI)	0	16.7% (3.6~41.4)	43.5% (23.2~65.5)	31.0% (17.6~47.1)					
DCR % (95%CI)	100%	72.2% (46.5~90.3)	69.6% (47.1~86.8)	71.4% (55.4~84.3)					
DoR (m) (median, range)		2 9 (0 9~4 2)	NR (0.2~13.1+)	4.2 (0.2~13.1+)					







### Conclusions

- SI-B001 (16+9 mg/kg QW) + docetaxel in NSCLC patients without AGA in 2<sup>nd</sup> line setting achieved ORR of 47.4% and mPFS of 7.2 months.
- The toxicity of SI-B001 + docetaxel was deemed to be manageable.
- A phase III study of SI-B001 + docetaxel in NSCLC patients without AGA is on-going.