

A phase 1b/2 study of gocatamig and ifinatamab deruxtecan for relapsed or refractory extensive-stage small cell lung cancer

#794

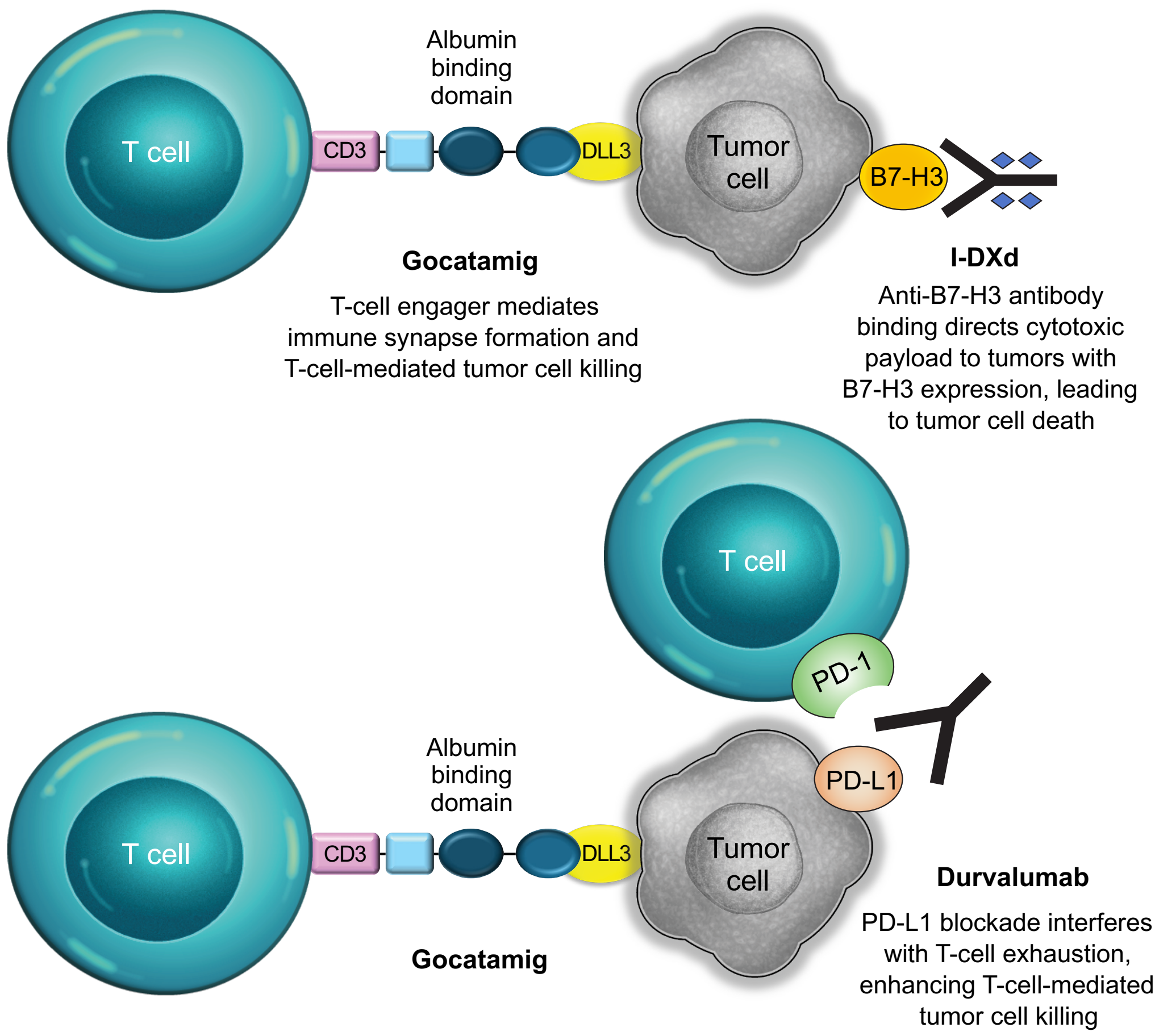
M. Johnson<sup>1</sup>; J. Bar<sup>2</sup>; J. C. Benítez Montañez<sup>3</sup>; C. Caglevic<sup>4</sup>; M. E. Gutierrez<sup>5</sup>; T. M. Kim<sup>6</sup>; N. Peled<sup>7</sup>; [P. Rocha](#)<sup>8</sup>; C. I. Rojas<sup>9</sup>; T. Shentzer Kutiel<sup>10</sup>; J.-M. Sun<sup>11</sup>; S. Vaidya<sup>12</sup>; Q. Liu<sup>13</sup>; A. Gramza<sup>13</sup>; J. Sands<sup>14</sup>

<sup>1</sup>SCRI Oncology Partners, Nashville, TN, USA; <sup>2</sup>Jusidman Cancer Center, Sheba Medical Center, Ramat Gan, Israel; <sup>3</sup>Comité de Ética de la Investigación con Medicamentos Hospital Clínico San Carlos, Madrid, Spain; <sup>4</sup>Fundación Arturo López Pérez-Unidad de Investigación de Drogas Oncológicas, Santiago, Chile; <sup>5</sup>John Theurer Cancer Center at Hackensack University Medical Center, Hackensack, NJ, USA; <sup>6</sup>Seoul National University Hospital, Seoul, South Korea; <sup>7</sup>Shaare Zedek Medical Center, Jerusalem, Israel; <sup>8</sup>Vall d'Hebron University Hospital, Barcelona, Spain; <sup>9</sup>Bradford Hill Investigación Clínica, Santiago, Chile; <sup>10</sup>Rambam Health Care Campus, Haifa, Israel; <sup>11</sup>Samsung Medical Center, Seoul, South Korea; <sup>12</sup>Daiichi Sankyo, Basking Ridge, NJ, USA; <sup>13</sup>Merck & Co., Inc., Rahway, NJ, USA; <sup>14</sup>Dana-Farber Cancer Institute, Boston, MA, USA

## INTRODUCTION

- Delta-like ligand 3 (DLL3) and B7-H3 are two proteins highly expressed on the surface of small cell lung cancer (SCLC) cells<sup>1,2</sup>
- Gocatamig (MK-6070, HPN328) is a DLL3-directed T-cell engager developed using the TriTAC<sup>®</sup> platform<sup>3</sup> (**Figure 1**)
- Ifinatamab deruxtecan (I-DXd) is an antibody-drug conjugate (ADC) comprising a B7-H3 monoclonal antibody covalently linked to a topoisomerase I inhibitor<sup>4</sup> (**Figure 1**)
- Both gocatamig and I-DXd have shown encouraging antitumor activity and manageable safety profiles when administered as monotherapy in participants with extensive stage (ES)-SCLC relapsed or refractory to one or more prior lines of systemic chemotherapy<sup>5,6</sup>
- Durvalumab is a programmed death ligand 1 (PD-L1) inhibitor approved for use in combination with etoposide and either carboplatin or cisplatin for the first-line treatment of ES-SCLC<sup>7</sup> (**Figure 1**)
- Because of their distinct mechanisms of action and minimally overlapping toxicities, combining gocatamig with an ADC or a checkpoint inhibitor may enhance efficacy without compromising tolerability
- We describe the ongoing phase 1b/2 study 6070-002 (NCT06780137) that is evaluating the combination of gocatamig with I-DXd or durvalumab, as well as gocatamig monotherapy and I-DXd monotherapy, for the treatment of relapsed or refractory ES-SCLC

Figure 1. Mechanisms of action of gocatamig, I-DXd, and durvalumab



## OBJECTIVES

### Primary

- Part 1: Evaluate the objective response rate (ORR), safety, and tolerability of gocatamig in combination with I-DXd or I-DXd alone
- Part 2: Evaluate the safety and tolerability of gocatamig monotherapy
- Part 3: Evaluate the safety and tolerability of gocatamig in combination with durvalumab

### Secondary

- Part 1: Evaluate the duration of response (DOR) and progression-free survival (PFS), characterize the pharmacokinetic profile, and evaluate the immunogenicity of I-DXd alone or in combination with gocatamig
- Part 2: Evaluate the ORR, DOR, and PFS, characterize the pharmacokinetic profile, and evaluate the immunogenicity of gocatamig monotherapy
- Part 3: Evaluate the ORR, DOR, and PFS, characterize the pharmacokinetic profile, and evaluate the immunogenicity of gocatamig in combination with durvalumab

## METHODS

Figure 2. The 6070-002 study design

PART 1	PART 2	PART 3
<ul style="list-style-type: none"><li>• Gocatamig + I-DXd Combination</li><li>• I-DXd Monotherapy</li></ul>	<ul style="list-style-type: none"><li>• Gocatamig Monotherapy Arms</li><li>• Reduced Required Monitoring (recruiting globally)</li><li>• China-specific</li><li>• Japan-specific</li></ul>	<ul style="list-style-type: none"><li>• Gocatamig + Durvalumab Combination</li></ul>
Safety Run-In <sup>a</sup> 2L+ ES-SCLC → Dose Expansion 2L ES-SCLC	2L+ ES-SCLC	2L+ ES-SCLC

2L, second-line; 2L+, second-line or later. <sup>a</sup>Bayesian optimal interval dosing.

- Gocatamig and I-DXd combination doses, the gocatamig monotherapy doses, and the gocatamig dose to be used in combination with durvalumab will depend on the results of the ongoing dual dose escalation and monotherapy cohorts of study 6070-001 (NCT04471727)
- Dose expansion in part 1 will depend on findings of the safety run-in period

Table 1. Key participant eligibility criteria

Inclusions
<ul style="list-style-type: none"><li>• Age 18 years or older</li><li>• Stage IV ES-SCLC (T any, N any, M1a/b/c) following:<ul style="list-style-type: none"><li>– Part 1 safety run-in, Part 2, and Part 3: At least one prior line of platinum-based chemotherapy with or without PD-(L)1 inhibitors</li><li>– Part 1 dose-expansion: Only one prior line of platinum-based chemotherapy with or without PD-(L)1 inhibitors</li></ul></li><li>• Measurable disease by RECIST 1.1 outside the CNS</li><li>• ECOG performance status 0 or 1</li><li>• Available tumor tissue sample</li><li>• Adequate organ function</li></ul>
Exclusions
<ul style="list-style-type: none"><li>• Pleural effusion, pericardial effusion, or ascites requiring drainage procedures</li><li>• History of pneumonitis or interstitial lung disease</li><li>• Clinically severe pulmonary compromise</li><li>• Active or history of autoimmune disease or immune deficiency</li><li>• Uncontrolled or significant (or history of significant) cardiovascular disease</li><li>• Unresolved grade ≥2 AEs (per NCI CTCAE 5.0) from prior anticancer therapy</li><li>• Last systemic anticancer treatment or other investigational agent/device within 3 weeks of scheduled dosing</li><li>• Severe, life-threatening immune-mediated AEs or IRRs with prior immune-oncology agents</li><li>• Radiotherapy within 2 weeks of study treatment (parts 1 and 2), or radiation to the lung within 6 months or the abdominal area within 4 weeks of study treatment (part 1)</li><li>• Prior treatment with a DLL3-targeted agent (except part 1 safety run-in period for the I-DXd monotherapy arm)</li><li>• Other malignancy within 3 years of screening (except basal cell or squamous cell carcinoma of the skin or carcinoma in situ)</li><li>• Prior treatment with B7-H3–targeted agents (part 1)</li><li>• Prior discontinuation of an ADC that consists of an exatecan derivative due to treatment-related toxicities (part 1)</li><li>• Untreated or symptomatic brain metastases or leptomeningeal disease</li></ul>

AE, adverse event; CNS, central nervous system; IRR, infusion-related reaction; NCI CTCAE, National Cancer Institute Common Terminology Criteria for Adverse Events; RECIST, response evaluation criteria in solid tumors.

### Assessments

- The incidence and causality of AEs, including serious AEs, will be collected from the time of treatment allocation through the last dose of study treatment and during the safety follow-up period
- Dose-limiting toxicities (DLTs; **Table 2**) will be assessed during the safety run-in period and graded using the NCI CTCAE v5.0 or the American Society for Transplant and Cellular Therapy (ASTCT) criteria
- ORR, DOR, and PFS will be assessed by the investigator per RECIST v1.1
- Pharmacokinetic and immunogenicity analyses for gocatamig alone or in combination with I-DXd or durvalumab will be performed

### References

1. Owen DH, et al. *J Hematol Oncol*. 2019;12:61.
2. Dong P, et al. *Front Oncol*. 2018;8:264.
3. Austin RJ, et al. *Mol Cancer Ther*. 2021;20:109-120.
4. Yamato M, et al. *Mol Cancer Ther*. 2022;21(4):635-646.
5. Beltran H, et al. *J Clin Oncol*. 2024;42(16\_suppl):8090.
6. Rudin CM, et al. *J Thorac Oncol*. 2024;19(10\_suppl):OA04.03.
7. Imfinzi. Package insert. AstraZeneca. 2025.

### Acknowledgments

The authors thank the participants, their families, and all investigators and site personnel for participating in this study, which was sponsored by Merck Sharp & Dohme LLC, a subsidiary of Merck & Co., Inc., Rahway, NJ, USA (MSD), and Daiichi Sankyo Company, Limited. Medical writing support was provided by Anna Lau of MSD.

### Contact Information

Contact Dr Melissa Johnson at [melissa.johnson@scri.com](mailto:melissa.johnson@scri.com) for questions or comments.

Table 2. Dose-limiting toxicities

Hematologic
<ul style="list-style-type: none"><li>• Grade 4 hematologic AE lasting ≥7 days</li><li>• Grade 4 thrombocytopenia of any duration</li><li>• Grade 3 thrombocytopenia associated with clinically significant bleeding</li><li>• Grade 3 or grade 4 febrile neutropenia</li></ul>
Nonhematologic
<ul style="list-style-type: none"><li>• Any grade ≥3 nonhematologic AE is considered a DLT, <u>except</u><ul style="list-style-type: none"><li>– Grade 3 fatigue lasting ≤7 days</li><li>– Grade 3 diarrhea, nausea, or vomiting lasting &lt;72 hours</li><li>– Grade 3 diarrhea, nausea, or vomiting lasting &gt;72 hours but &lt;120 hours without use of antiemetics or antidiarrheals per standard of care</li><li>– Grade 3 rash without use of corticosteroids or anti-inflammatory agents per standard of care</li><li>– Grade 3 or 4 events of increased or decreased blood pressure if associated with symptoms of CRS/IRR and resolve in concordance with CRS symptom resolution and do not result in additional safety events</li><li>– Grade 3 or 4 nonhematologic laboratory that is asymptomatic and/or rapidly reversible (returned to baseline or to grade ≤1 within 7 days) unless identified as clinically relevant by the investigator</li></ul></li><li>• Drug-induced liver injury, defined as serum chemistry values and clinical presentation with the following features:<ul style="list-style-type: none"><li>– ALT or AST ≥3 × ULN</li><li>– Total bilirubin ≥2 × ULN</li><li>– Alkaline phosphatase &lt;2 × ULN</li><li>– No other cause for abnormalities, such as viral hepatitis A, B, or C, preexisting or acute liver disease, or another drug capable of causing the observed injury</li></ul></li><li>• Grade ≥2 interstitial lung disease or pneumonitis</li><li>• Grade 5 toxicity</li></ul>

ALT, alanine aminotransferase; AST, aspartate aminotransferase; CRS, cytokine release syndrome; ULN, upper limit of normal.

### Statistical analyses

- The safety analysis population will consist of all participants who received at least one dose of study treatment
- The efficacy analysis population for will consist of all participants with a baseline scan who received at least one dose of study treatment
- The per-protocol population for pharmacokinetic and immunogenicity analyses will consist of the subset of participants who complied with the protocol sufficiently to ensure that their data are likely to show the effects of treatment

### Current status

- Recruitment is currently ongoing at sites worldwide in Australia, Chile, China, Israel, Japan, South Korea, Spain, Türkiye, and the United States
- Enrollment is estimated to be approximately 138 participants across all treatment arms

