





2017~2018

Jul 2017 Founded

May 2018 Strategic Partnership with Samsung Biologics

2018~2021

| Nov 2019 | Out-licensing of GI-101 to Simcere, China For \$ 790M in the Greater China Region |
|----------|--|
| Jul 2020 | Out-licensing of GI-301 to Yuhan, Korea For \$ 1.2B Excluding Japan (Sublicensing, 50/50 Profit Sharing) |
| Jul 2020 | Collaboration with MSD for GI101·Keytruda® |
| Jun 2021 | GI-101 Ph I/II IND (US, KR) |
| Jul 2021 | GI-301 Ph I IND (KR) |
| Nov 2021 | Collaboration with AstraZeneca GI-101·Imfinzi® |

2022~

| May 2022 | GI-101 Ph I/II Granted \$ 5.8M from Korea Drug Development Fund (KDDF) |
|----------|---|
| Sep 2022 | GI-108 Granted \$ 1.7M from KDDF |
| Oct 2022 | GI-101 Orphan Drug Designation (US FDA) |
| Feb 2023 | GI-102 Ph I/IIa IND (US/KR) |
| Mar 2023 | Listed in KOSDAQ |
| | |
| | |

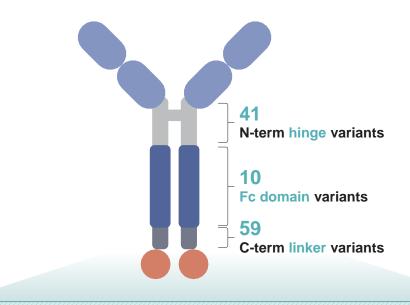
Applied USD/KRW: 1,200



GI-SMART[™] Platform Technology for Accelerated Development of Bispecific Proteins

SMART-Selex™

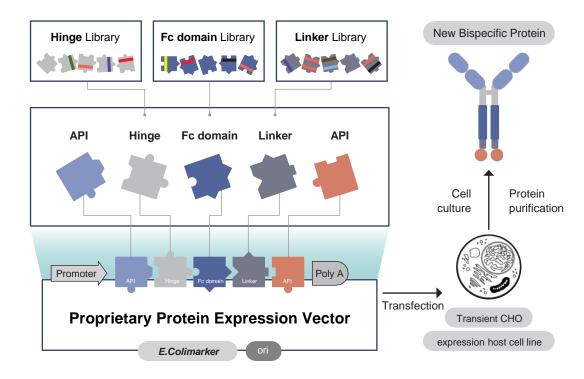
Libraries for specific of bispecific proteins
Enable quick assembly of stable and functional proteins



 $41 \times 10 \times 59 = 24,190$ variants

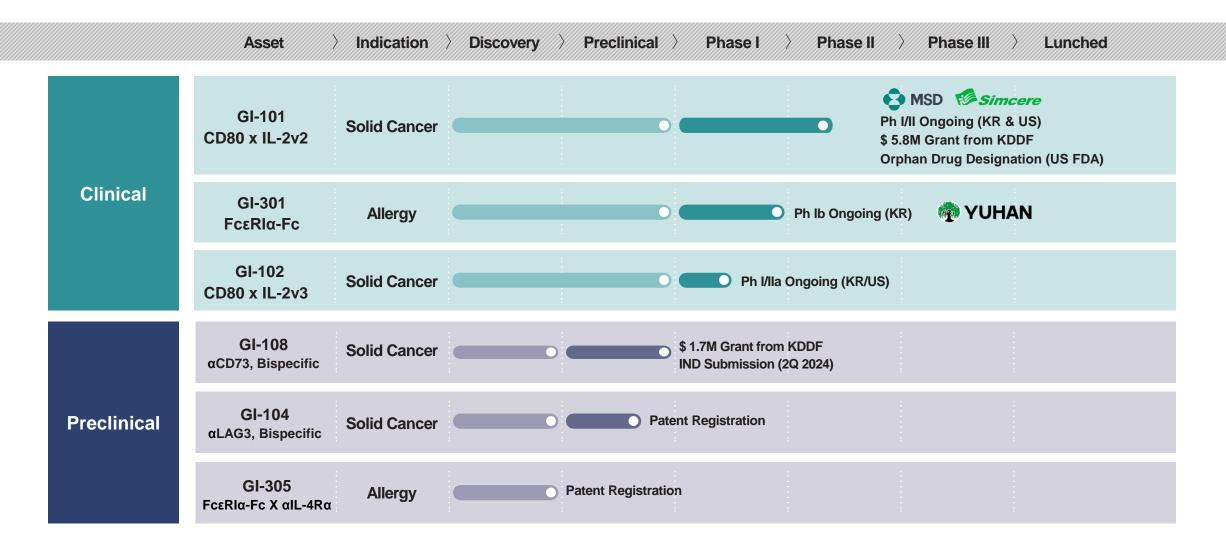
SMART-cLego™

Fast cloning by Lego-like block integration into an Expression vector to save cost and time of protein production





Pipeline



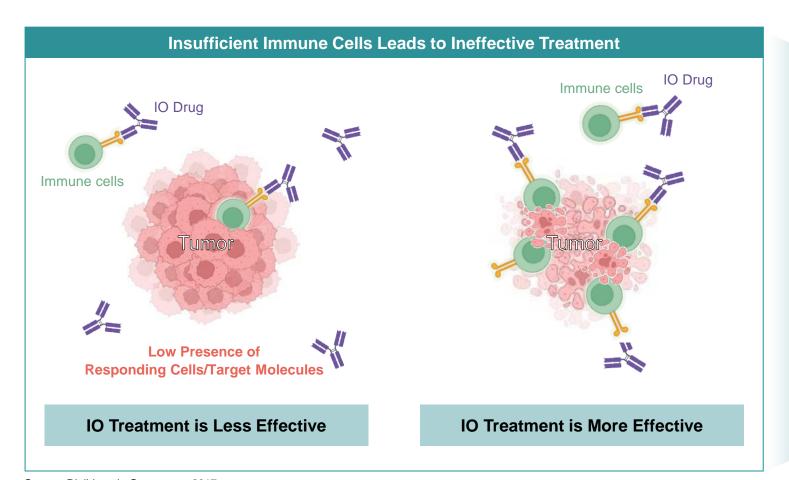


Innovative Immunokine 'GI-101'





Unmet Needs in Checkpoint Blockade Therapy



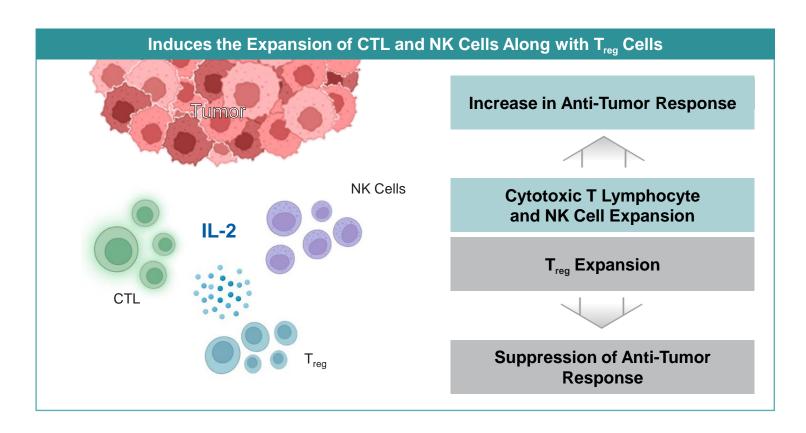
IL-2 increases the number and activity of the immune cells

Source: Dielhl et al., Oncotarget, 2017



Limitations in the Clinical Use of IL-2

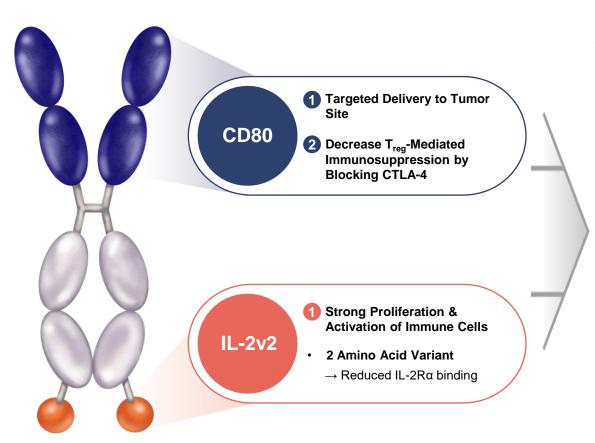
IL-2 has strong anti-cancer activity but clinical use is limited due to safety concern

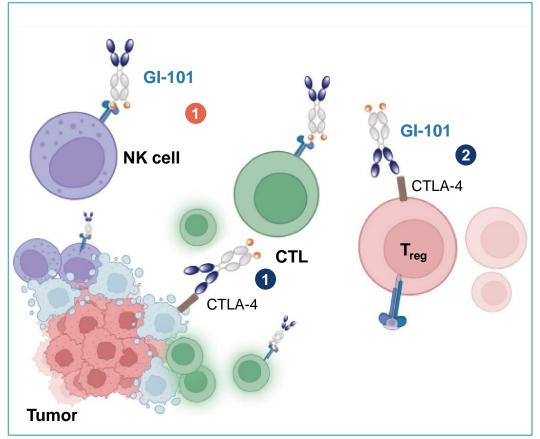






GI-101, Synergetic Combination of CD80 and IL-2 for Enhance Efficacy





CTL: Cytotoxic T Lymphocyte

Superior to Competitive Product and Pipeline

| | | G innovation | ر ^{ال} ا Bristol | Myers Squibb | Alkermes |
|----------|-------------------------------------|---------------------|-----------------------------------|---------------------------------|--------------------------------|
| Category | Function | GI-101 | Yervoy® (anti-CTLA4 Ab) | Bempegaldesleukin (PEG-IL-2) | Nemvaleukin (Modified IL-2) |
| | | (CD80 x IL-2v) | CD80 Competitive | IL-2 Competitive | IL-2 Competitive |
| | CD8 T+ Cell Proliferation | • | • | • | • |
| Efficacy | NK cell Proliferation | • | N/A | • | • |
| | T _{reg} Cell Inhibition | • | • | Ο | 0 |
| Action | Targeting of Tumor and immune cells | • | • | N/A | N/A |
| Safety | Tolerability | • | 0 | 0 | Ο |

●: High ①: Intermediate ○: Low

Superior Safety over Proleukin® & Competitive IL-2 Agents

Recommended Phase 2 Dose was set at 0.3 mg/kg: 10-fold higher IL-2 amount vs non-alpha IL-2 agents

| | GI-101 monotherapy (N=57) | Proleukin® (N=270)* |
|------------------------|----------------------------------|---|
| ≥ Grade 3 ADR | 11 (19%) | 257 (95%) [†] |
| ≥ Grade 4 ADR | 0 (0%) | 95 (35%) [†] |
| ADR leading to death | 0 (0%) | 6 (2%) |
| Most common ADR (>20%) | Fever (67%), increased AST (21%) | Hypotension (64%), vomiting (55%), diarrhea (54%), bilirubin elevation(51%), hypouresis (49%), fever (47%), thrombocytopenia (43%), Increased aminotransferase (39%), Increased blood creatinine (35%), malaise (34%), difficulty in breathing (31%), chaos (30%), anemia (29%), rash (27%), nausea (24%), leucopenia (21%) |

ADR: Adverse Drug Reaction

^{*} Patients with Metastatic Melanoma (analysis of 270 patients treated between 1985 and 1993)

^{**} Grade 4 Lymphopenia

[†]Oncology News International vol 7 No 2 CancerNetwork Feb 1998

GI-101 Monotherapy Shows Promising Anti-Cancer Activity (1/2)

In monotherapy dose escalation and expansion phase:

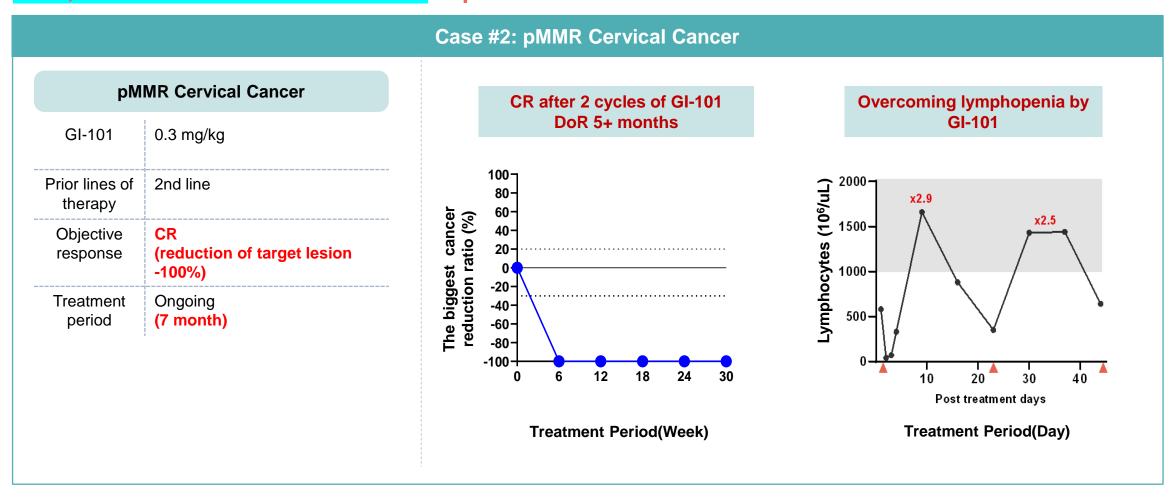
1 CR, 3 PRs and 1 SD over 6 months in patients with solid tumor who failed on SoC

| MSS Color | ectal Cancer with Liver Metz | | |
|-----------------------|---|----------------------------|--|
| GI-101 | 0.018 mg/kg | Before | |
| Prior line of therapy | 3rd line | GI-101 114.9 mm | |
| Objective response | SD (reduction of target lesion -53.57%) | | |
| Treatment period | Ongoing (1.5 + year) | After GI-101 53.6 mm | |

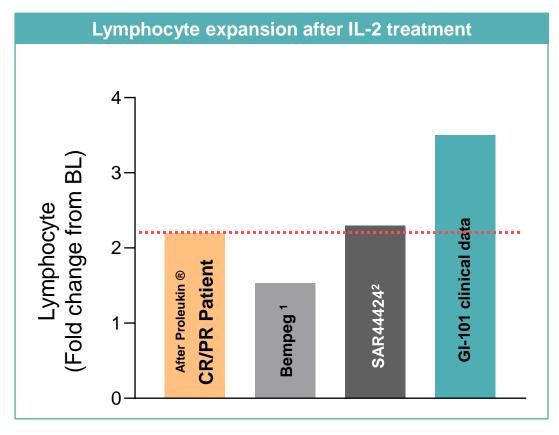
GI-101 Monotherapy Shows Promising Anti-Cancer Activity (2/2)

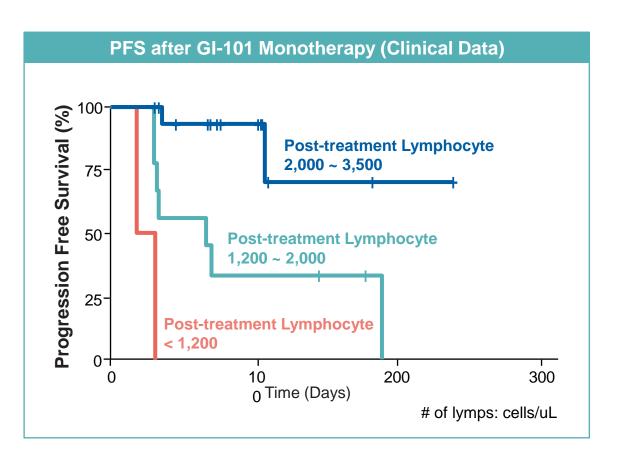
In monotherapy dose escalation and expansion phase:

1 CR, 3 PRs and 1 SD over 6 months in patients with solid tumor who failed on SoC



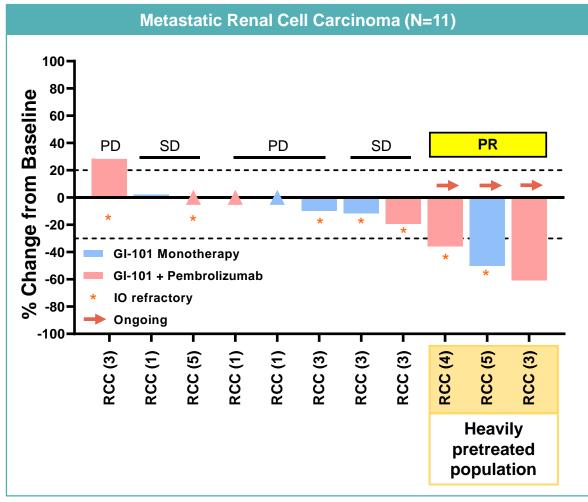
Lymphocyte Expansion Correlates with Anti-Cancer Activity of GI-101

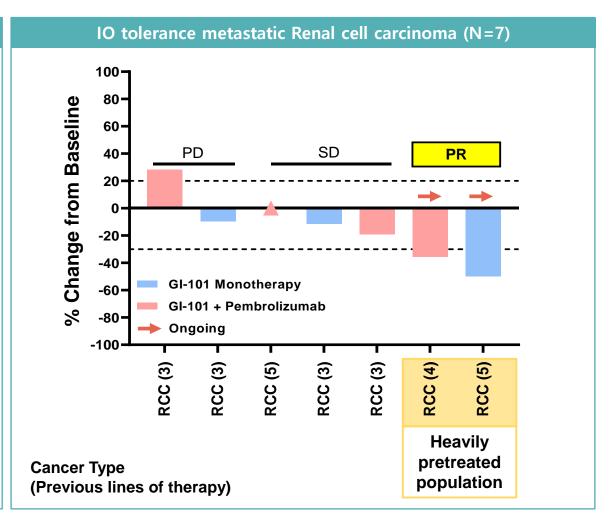




- 1. Nektar Therapeutics., ASCO Presentation. 2017
- 2. Sanofi 2020 R&D presentation

GI-101 has potential to overcome CPI resistance

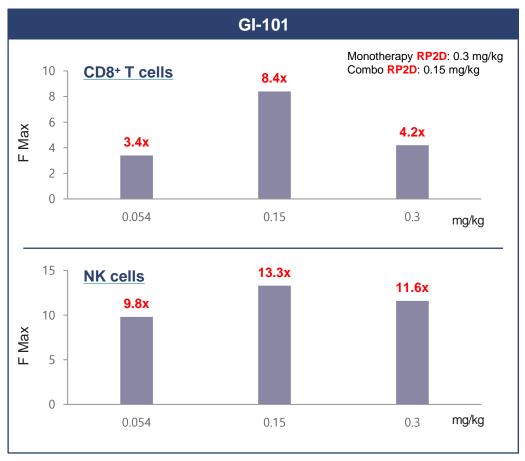


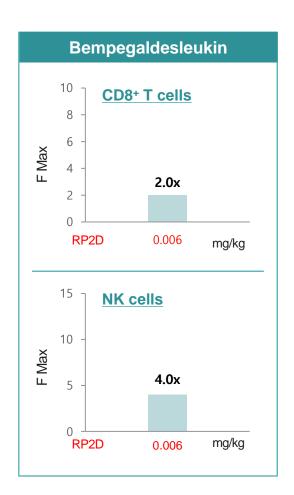


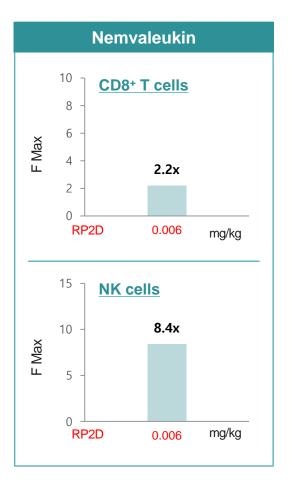
%Change from BL until PD per RECIST v1.1; Data cut-off 06 Jul 2023



GI-101 Induces Robust Proliferation of Effector Cells



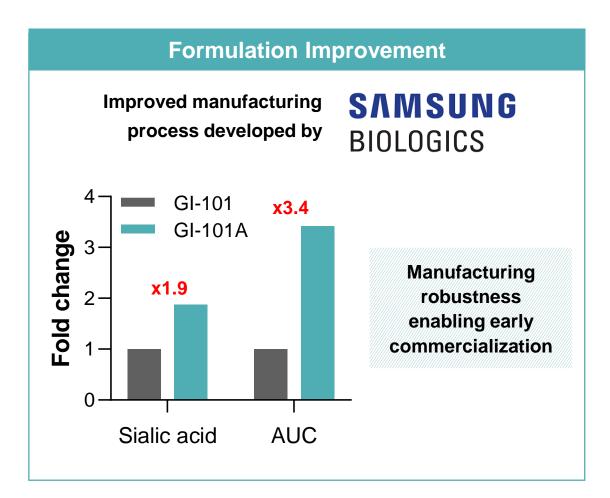


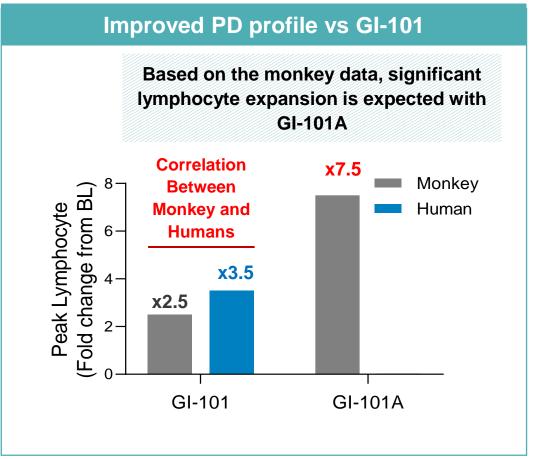


Data cut-off: 27 Dec 2022; Alkermes corporate presentation, Sanofi corporate presentation



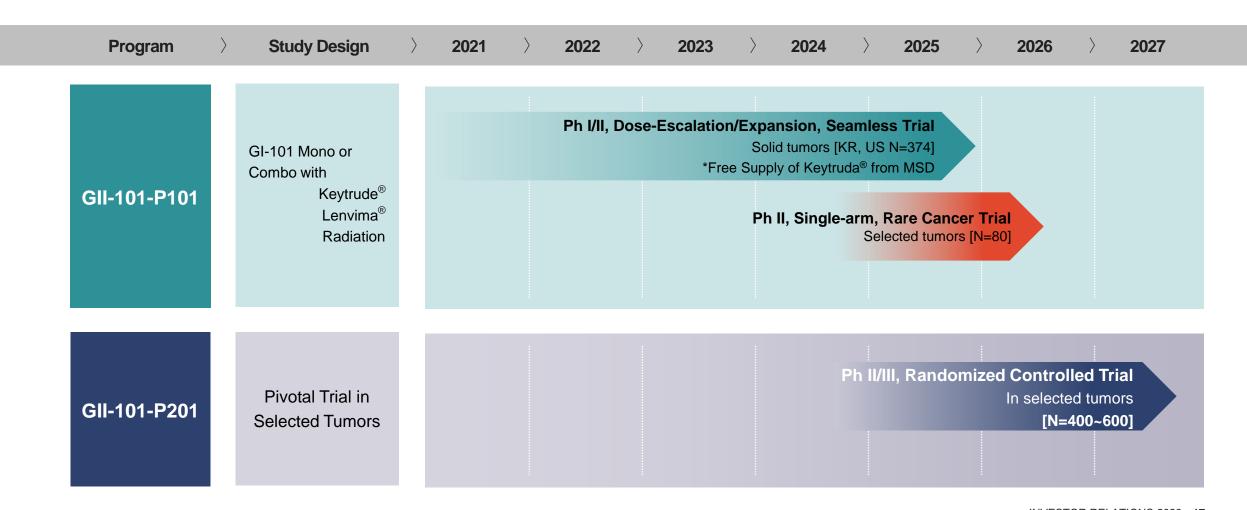
GI-101A: GI-101 with High Sialic Acid







Clinical Development Plan of GI-101





Game Changing Next-Generation Immunokine 'GI-102'





GI-102, Super Immunokine with the Advantage of SC Delivery

Bispecific Design Targeted Delivery to Tumor site Decreases T_{req}-Mediated **CD80** Immunosuppression by Blocking CTLA-4 Strong Proliferation & **Activation of Immune Cells** IL-2v3 3 Amino Acid Variants

Competitive Advantage



High Anti-Tumor Activity

Simultaneously increases the number and the activity of cytotoxic T lymphocytes and NK cells

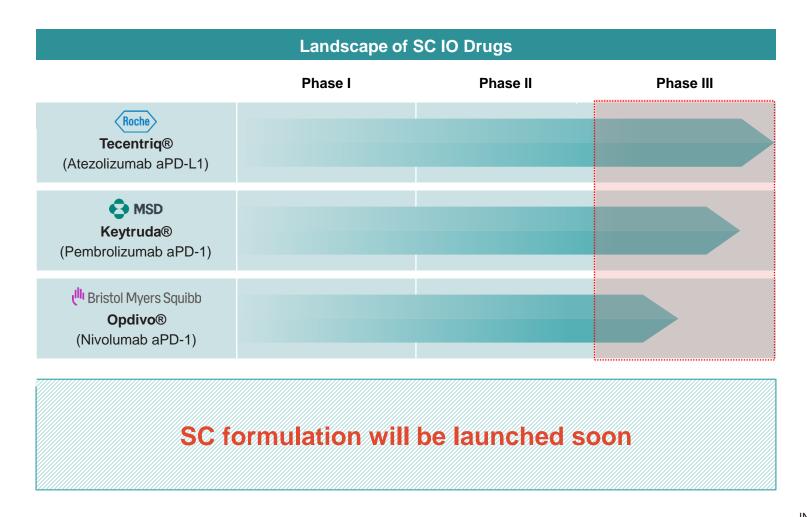


SC Delivery

High content of sialic acid allows SC delivery without changing the formulation

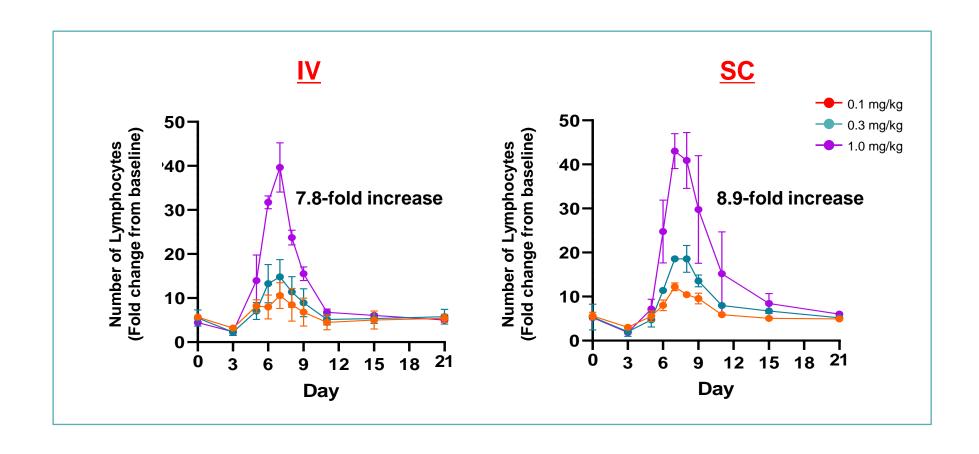


SC Delivery as a Global Trend in Immuno-Oncology





Immune Cell Expansion Between IV and SC Administration in Monkeys



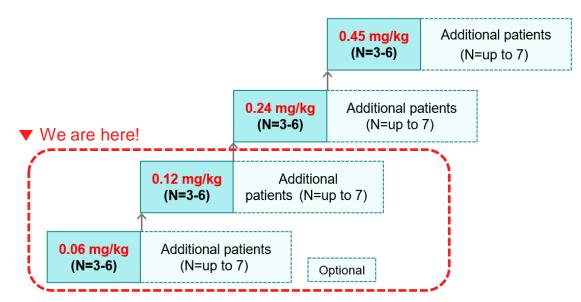


GI-102 Study Design

Study is undergoing in Korea and US

Dose escalation phase (3+3 design) in all comers (Total N=approx. 52)

GI-102: mg/kg, IV, Q3W



- In dose escalation, enrollment in each cohort may be extended, potentially enriched in certain tumor types and/or characteristics to confirm totality of clinical data, if applicable (N=up to 7/cohort)
- Additional patients enrolled in each dose escalation cohort are not subject for DLT evaluation and baseline and on-treatment biopsies are mandated

Dose expansion phase

(Total N=approx. 40)

GI-102: mg/kg, IV, Q3W



Solid cancers failed on available SOC (N=40)

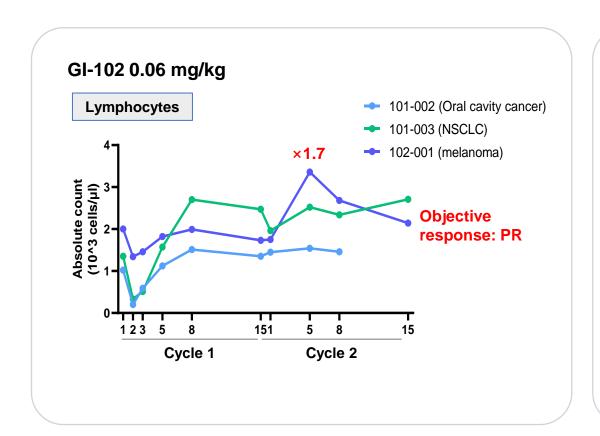
RCC (n=10), Melanoma (n=10)

- ❖ Tentative RP2D will be optimized through 1:1 randomization. The protocol will be amended accordingly.
- In dose expansion phase, If ORR exceeds 10% in the certain tumor types, the enrollment of the that tumor type can be expanded to have up to 20 response-evaluable patients

Abbreviation: RP2D= Recommended phase 2 dose; RCC=Renal cell cancer



GI-102 is Showing Early Clinical Signal



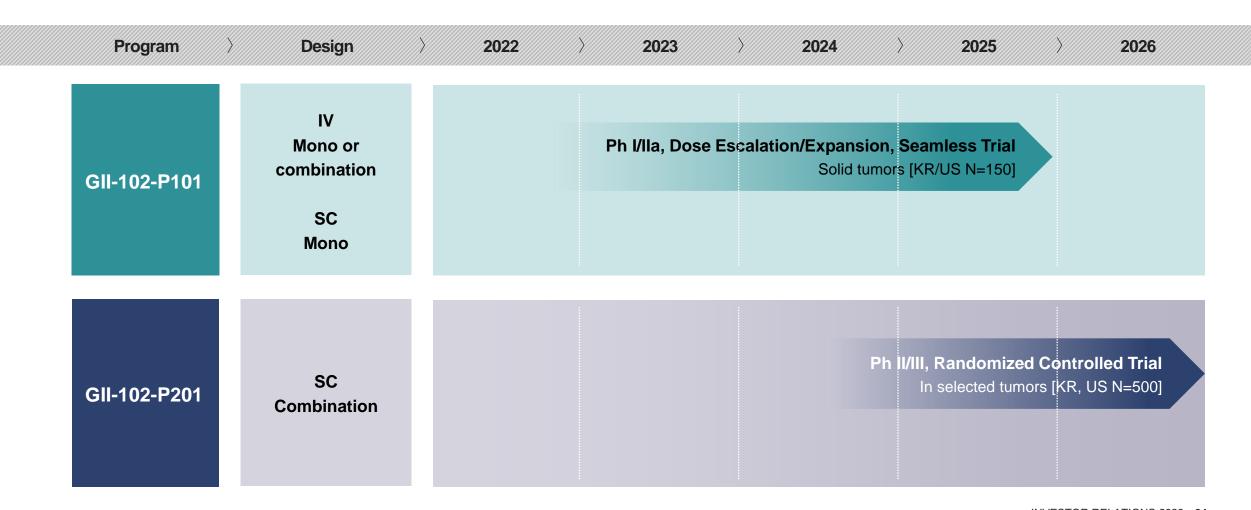
Among 3 patients dosed GI-102 0.006 mg/kg, <u>1 patient</u>
 (Melanoma) had uPR (Partial Response) after 2 cycles of GI-102
 (based on RECIST v1.1)

[Patient demography]

- Stage II Melanoma, Female, 70 years
- Initial diagnosis: Apr 2012
- Treatment history
 - 1L Pembrolizumab (2017-2019)
 - 2L Cisplatin + Dacarbazine + Tamoxifen (2019-2020)
 - 3L ATR kinase inhibitor + Durvalumab (2020-2021)



Clinical Development Plan of GI-102





Bispecific to overcome immune resistance: 'GI-108'





GI-108, Dual-targeting action via anti-CD73 and undisclosed target

Bispecific Design • Targeting of CD73 overexpressing tumor cells α-CD73 · Inhibits AMP breakdown to adenosine Designed to remediates immune system from tumor-mediated immunosuppression **Undis-**· Strong Proliferation & Activation of Immune Cells closed

Competitive Advantage

High Anti-Tumor Activity

Low efficacy with other targets in adenosine pathway (CD39, A2AR)

No clinical benefit with current CD73 monotherapy

Bispecifics or combination therapy is needed

IND Submission planned in Korea: 2024' 2Q



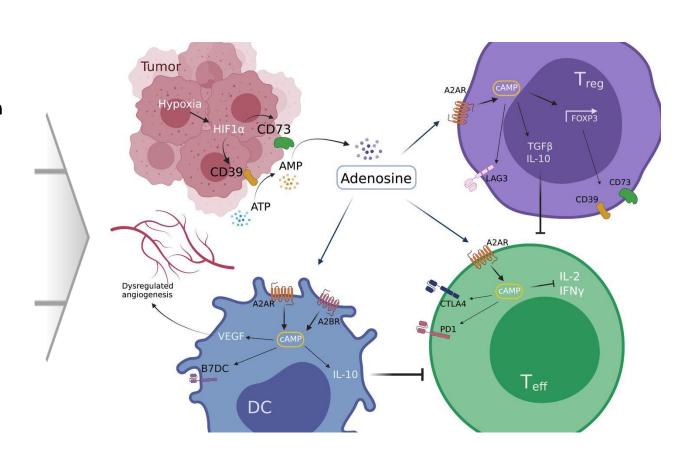
CD73 is critical for immune resistance



- Overcomes immune suppression in adenosine-enriched tumors
- Reinvigorates immune response

Combining IL-2

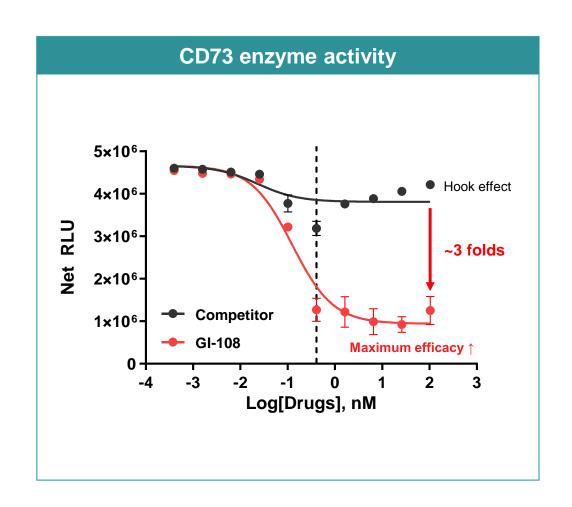
 Synergizes to induce strong proliferation/activation of effector T and NK cells

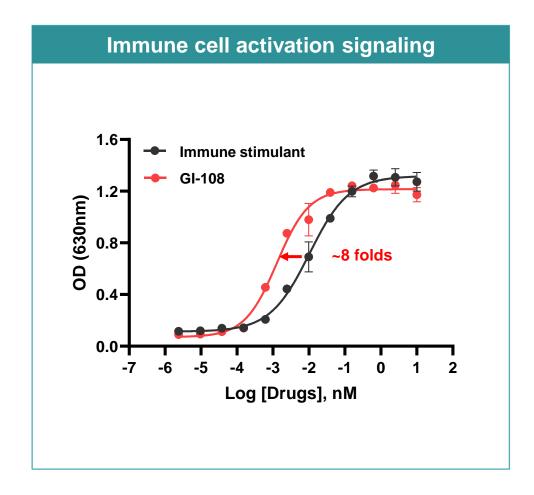


Modified from: 1. Augustin RC et al., JITC. 2022; 2. Masso-Silva JA et al., Front Immunol, 2022; 3. Horvath L et al., Mol Cancer, 2020; 4. Stultz J et al., Prostate Cancer, 202; 5. Petrova et al., IJMS, 2020;



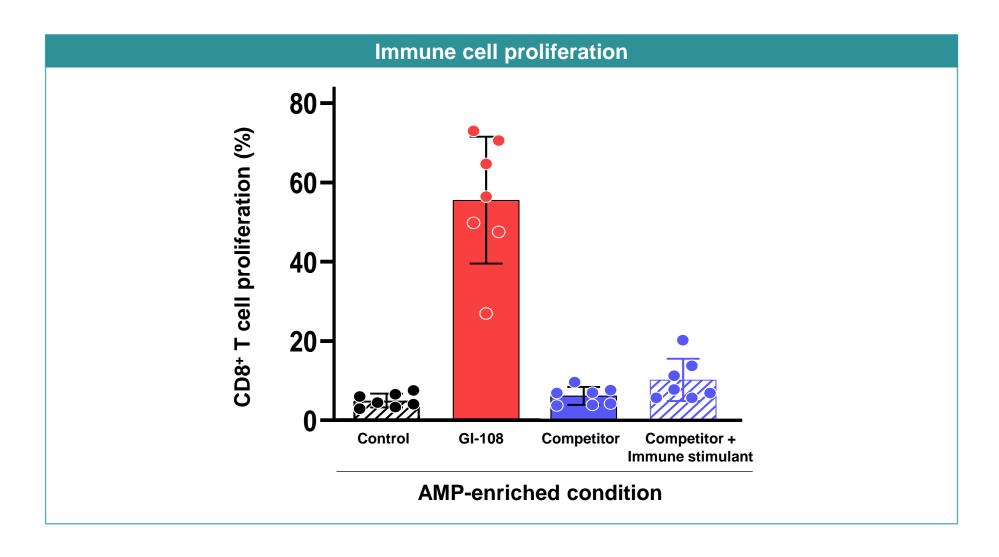
GI-108 Shows Promising Efficacy Compared to Competitor Programs





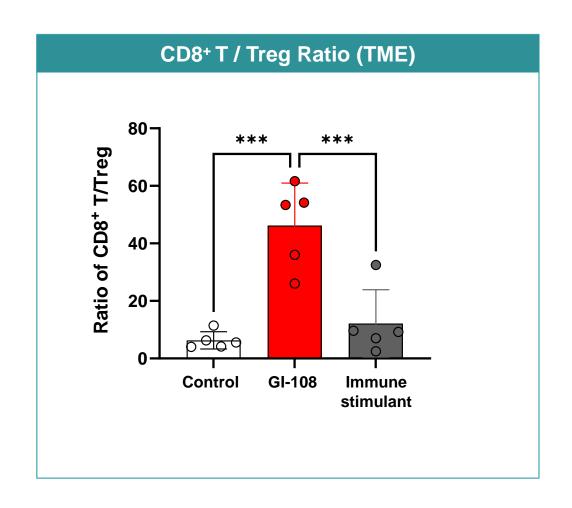


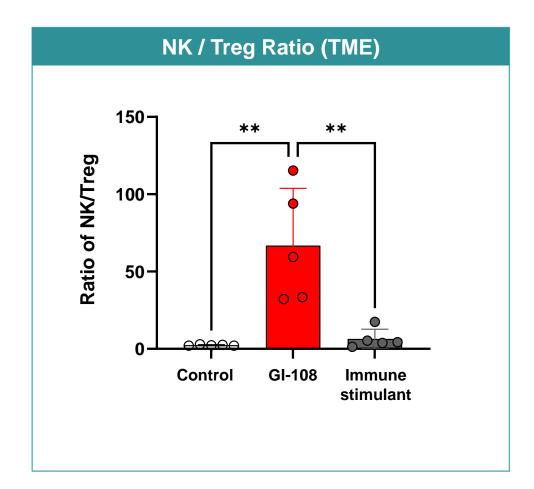
GI-108 Induces CD8 T Cell Proliferation in AMP-Enriched Condition





GI-108 Induces Significant Changes in Immune Cell Composition in Tumor Microenvironment

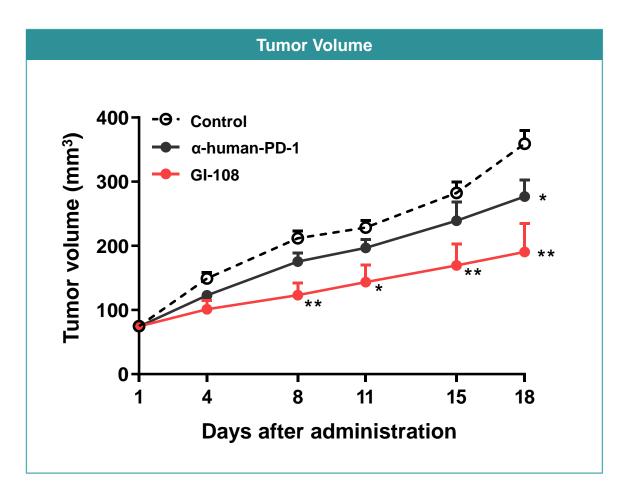


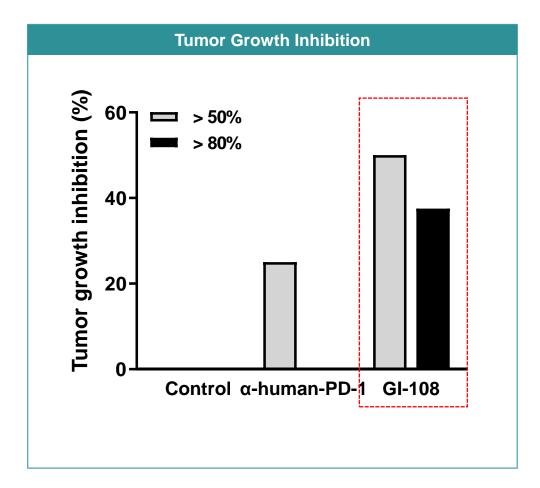




GI-108 elicits anti-tumor effect in humanized mice

Anti-tumor response was evaluated in humanized mouse model (MHC class I–null B2M NSG) after human PBMC transplantation, grafted with MDA-MB-231, triple-negative breast cancer cell line, having high PD-L1 and CD73 expression







Clinical Development Plan of GI-108

Targets CD73 expressing tumor with high unmet medical needs, e.g., Pancreatic cancer

