Abstract **TPS429**

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INTRODUCTION

- Claudin 18 isoform 2 (CLDN18.2), a tight junction protein normally expressed only on gastric mucosa, has broad expression in gastric and GEJ, pancreatic, esophageal, and other solid tumors¹
- EO-3021/SYSA1801 is an antibody drug conjugate (ADC) composed of a mAb targeting CLDN18.2 with a MMAE payload site-specifically conjugated at glutamine 295 (Q295) via a cleavable linker. EO-3021 was designed with a DAR of 2² (Fig 1A)
- EO-3021 selectively delivers a potent cytotoxic MMAE payload directly to cancer cells expressing CLDN18.2, exhibits a bystander effect, and retains ADCC and CDC activity²
- EO-3021 induced tumor regressions with a single dose across low, medium, and high CLDN18.2expressing in vivo models and outperformed SOC chemotherapy² (Fig 1B)

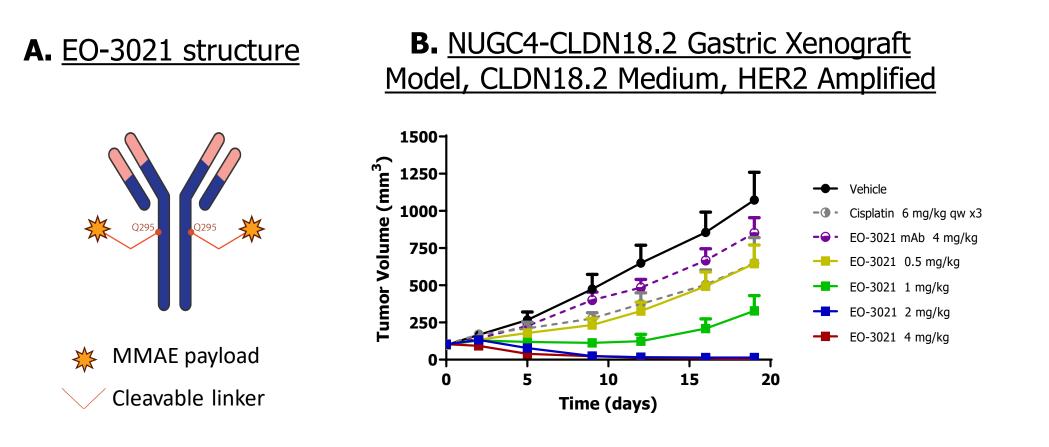


Figure 1. EO-3021 structure (A) and in vivo anti-tumor activity (B)

Abbreviations: ADC, antibody drug conjugate; ADCC, antibody-dependent cellular toxicity; CDC, complement-dependent cytotoxicity; DAR, drug-antibody ratio; ECOG, Eastern Cooperative Oncology Group; GEJ, gastroesophageal junction; IHC, immunohistochemistry; IV, intravenous; mAb, monoclonal antibody; MMAE, monomethyl auristatin E; MTD, maximum tolerated dose; PK, pharmacokinetics; RECIST, Response Evaluation Criteria in Solid Tumors; RP2D, recommended phase 2 dose; SOC, standard of care

A Phase 1 Study of EO-3021 in Adult Patients with Solid Tumors Likely to Express CLDN18.2

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METHODS

• This is a Phase 1, open-label, multi-center, dose escalation and expansion study to investigate the safety, tolerability, PK and preliminary anti-tumor activity of EO-3021 in patients with solid tumors likely to express CLDN18.2 • Key Inclusion Criteria:

• Adult patients (age \geq 18 years) with histologically and/or cytologically confirmed diagnosis of advanced unresectable or metastatic solid tumor that is likely to express CLDN18.2 such as gastric cancer/GEJ, pancreatic, esophageal cancer • ECOG performance status 0 or 1 at screening

• Progressed on or after standard therapy, or are intolerable for available standard therapy, or there is no available standard therapy • At least one measurable extra-cranial lesion as defined by RECIST v1.1 • Key Exclusion Criteria:

• Have previously received CLDN18.2 ADC or any ADC containing an auristatin payload (prior monoclonal antibody against CLDN18.2 may be eligible)

• Have peripheral neuropathy Grade ≥ 2

• Expression of CLDN18.2 is not required; tumor samples will be collected for retrospective assessment of CLDN18.2 by IHC • <u>Dosing</u>: Patients will receive EO-3021 IV once every three weeks (Q3W) until disease progression or unacceptable toxicity

Part A: Dose Escalation

Dose Level X X mg/kg IV Q3W Gastric/GEJ adenocarcinoma Dose Level 4 2.9 mg/kg IV Q3W MTD/RP2D Dose Level 3 progression or unacceptable toxicity 2.5 mg/kg IV Q3W **Primary Objectives** Dose Level 2 2.0 mg/kg IV Q3W express CLDN18.2 Dose Level 1 **Secondary Objectives** 1.0 mg/kg IV Q3W TRIAL STATUS efficacy of EO-3021

• Enrollment in the dose escalation portion of the study began in August 2023

• For additional information on actively enrolling sites, please refer to www.clinicaltrials.gov (NCT05980416)

• This study is sponsored by Elevation Oncology, Inc.

REFERENCES



Part B: Expansion

• Patients with advanced unresectable or metastatic gastric/GEJ adenocarcinoma will receive EO-3021 IV infusion Q3W until disease

Determine the single-agent EO-3021 RP2D and schedule for further exploration in patients with advanced solid tumors that are likely to

Safety profile, PK profile, immunogenicity and early indication of clinical

1. Sahin U, et al. Clin Cancer Res. 14(23), 2008 2. Dan M, et al. Cancer Res. 83, 2023

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EO-3021 is under investigation in a clinical trial and has not been approved by the FDA for any indication