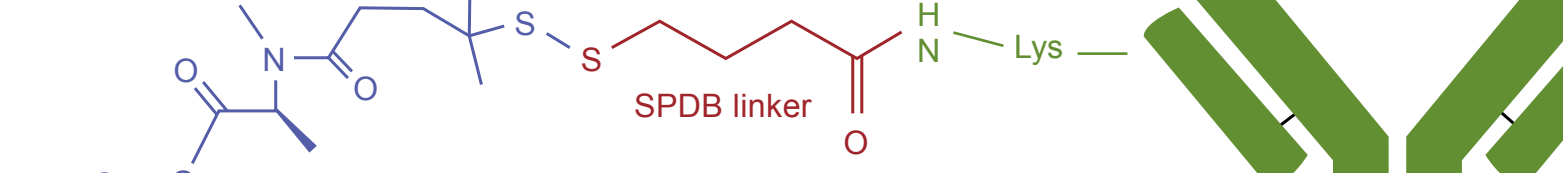


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Carcinoembryonic antigen-related cell adhesion molecule 5 (CEACAM5) is a glycoprotein that is highly expressed in several types of tumor tissue, including gastrointestinal, lung, and breast, compared with its level of expression in normal epithelial tissue¹

Tusamitamab ravtansine is an antibody-drug conjugate composed of a monoclonal antibody that selectively targets CEACAM5-expressing tumor cells linked to a potent, antimitotic cytotoxic maytansinoid, with an antibody:drug ratio of 3.8² (**Figure 1**)



Chemical structure of the conjugate showing the Ravidansine (DM4) moiety linked via a succinimide linker to a humanized anti-CEACAM5 antibody (IgG1).

Ravidansine (DM4) cytotoxic agent

3.8 drug-to-antibody ratio^a

Humanized IgG1 CEACAM5-specific monoclonal antibody

CEACAM5, carcinoembryonic antigen-related cell adhesion molecule 5; DM4, ravidansine; IgG1, immunoglobulin G1; SPDB, N-succinimidy 4-(2-pyridyldithio)butyrate.

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graph LR; A[Identified maximum tolerated dose of tusamitamab ravtansine] --> B[100 mg/m² intravenously every 2 weeks]; B --> C[Dose-escalation cohorts]; B --> D[Dose-expansion cohorts]; D --> D1[Colorectal cancer]; D --> D2[Gastric cancer*]; D --> D3[Nonsquamous non-small cell lung cancer]; D --> D4[Small cell lung cancer];
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Dose escalation

Dose-expansion cohorts

- Colorectal cancer
- Gastric cancer*
- Nonsquamous non-small cell lung cancer
- Small cell lung cancer

- 31 patients were treated in the dose-escalation part of the study, which determined the maximum tolerated dose of tusamitamab ravtansine to be 100 mg/m² every 2 weeks (Q2W)³
- Patients with different types of cancer were treated at this dose level
 - 92 patients with heavily pretreated nonsquamous non-small cell lung cancer (NSCLC)⁴

- Treatment-emergent adverse events (TEAEs) were characterized according to the National Cancer Institute Common Terminology Criteria for Adverse Events version 4.03 and coded using the Medical Dictionary for Regulatory Activities version 23.1

CI, confidence interval; CR, complete response; CRC, colorectal cancer; GC, gastric cancer; PD, progressive disease; PR, partial response; SD, stable disease.
^aConfirmation of response was required to be documented as a confirmed response. ^bOne patient had an unconfirmed response. ^cIncludes patients with no post-baseline evaluation due to early death or early progression based on symptomatic deterioration.

- Tusamitamab ravtansine 100 mg/m² Q2W was well tolerated in patients with CRC and GC
- In patients with GC who were pretreated with taxanes, tusamitamab ravtansine 100 mg/m² Q2W showed modest disease control
- Further development of tusamitamab ravtansine should focus on combination therapy in CRC and patients with GC who are taxane-naïve

[illegible]

- [illegible]

- J-SK** is an employee of IMBd; has served in a consulting or advisory role for Abon Inc and CJ HealthCare; reports receiving research funding/grants from Alpha Biompharma, Astellas Pharma, AstraZeneca, Boehringer Ingelheim, CJ HealthCare, Hain, Il-Yang Pharmaceutical, Lilly, Merck, MSD, Novotest, Ono Pharmaceutical, Pfizer, Sanofi, and Yuhai; reports honoraria from Abon Inc, AstraZeneca, Boehringer Ingelheim, CJ HealthCare, Lilly, and Merck; and expert testimony for CJ HealthCare.
- MC** is an employee of Sanofi.
- SY** is an employee of Sanofi and reports stock/ownership interests in Sanofi.
- J-PO** has served in a consulting or advisory role for BMS, MSD, Pierre Fabre, and Roche; was an invited speaker for Merck Serono; and reports their institution received research grants from Amgen, AstraZeneca, BMS, Genentech, MSD, and Transgene.

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