

Product Data Sheet

Product Name: Demcizumab

Cat. No.: GC74473

Chemical Properties

Cas. No. 1243262-17-0

Formula M.Wt 145.65 (kDa)

Solubility Storage

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Demcizumab

Background

Demcizumab (OMP 21M18) is an anti-DLL4 monoclonal antibody. Demcizumab is a potent inhibitor of the Notch pathway. Demcizumab alone or in combination with chemotherapy is effective in various cancer models.

Demcizumab (0-100 µg/mL) binds to human DLL4 but not murine DLL4, and blocks DLL4 binding to Notch1 receptor in a FACS-binding assay[3]. Demcizumab (20 µg/mL, 48 h) reduces HES1 and DTX1 mRNA expression in PDTALL cells[4]. Demcizumab (0-80 µg/mL, 1 or 2 or 3 days) promotes cell death and early apoptosis in PDTALL13 cells[4].

Caution: Product has not been fully validated for medical applications. For research use only.

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Demcizumab (10 mg/kg, i.p., once a week) together with Irinotecan (7.5 mg/kg) show a significant antitumor effect in KRASWT and KRASMT CRC xenografts[2]. Demcizumab is efficacious alone or in combination with Irinotecan (7.5 mg/kg) in OMP-C8 colon tumors[3]. Demcizumab (20 mg/kg/week, i.p.) increases mice survival in irradiated NRG mice injected PDTALL13 cells[4].

References:

- [1]. Smith DC, et al. A phase I dose escalation and expansion study of the anticancer stem cell agent demcizumab (anti-DLL4) in patients with previously treated solid tumors. Clin Cancer Res. 2014 Dec 15;20(24):6295-303.
- [2]. Fischer M, et al. Anti-DLL4 inhibits growth and reduces tumor-initiating cell frequency in colorectal tumors with oncogenic KRAS mutations. Cancer Res 2011;71:1520-5.
- [3]. Hoey T, et al. DLL4 blockade inhibits tumor growth and reduces tumor-initiating cell frequency. Cell Stem Cell 2009;5:168–77.
- [4]. Xiong H, et al. Spleen plays a major role in DLL4-driven acute T-cell lymphoblastic leukemia. Theranostics. 2021 Jan 1;11(4):1594-1608.

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