

Brontictuzumab

Chemical Properties

CAS No. :	1447814-75-6
Formula:	
Molecular Weight:	143.93 kDa
Storage:	Store at low temperature -20°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Brontictuzumab (OMP 52M5) is a monoclonal antibody that targets Notch1 and inhibits activation of the pathway. It has antitumor activity, inhibits tumor cell proliferation, and can be used in the study of leukemias and lymphomas.
Targets(IC50)	Gamma-secretase
In vitro	0-100 µg/mL Brontictuzumab effectively inhibited the activity of Notch1 signaling pathways, including DLL4 and JAG1/2. In HPB-ALL cell line, treatment with 25 µg/mL Brontictuzumab for 4 days significantly reduced the level of Notch1 intracellular structural domain. [1] In MCL cells, treatment with 25 µg/mL Brontictuzumab for 48 hours inhibited DLL4-mediated overexpression of cleaved Notch1. In addition, the increased phosphorylation of MEK and ERK in Mino cells caused by DLL4 stimulation was effectively blocked. [2]
In vivo	In the MCL model, 20 mg/kg Brontictuzumab intraperitoneal injection, administered every 4 days, inhibited DLL4-induced Notch1 activation. [2] Intraperitoneal injection of 15 mg/kg Brontictuzumab significantly reduced tumor burden in a T-ALL xenograft model. [3]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.0069 mL	0.0347 mL	0.0695 mL
5 mM	0.0014 mL	0.0069 mL	0.0139 mL
10 mM	0.0007 mL	0.0035 mL	0.0069 mL
50 mM	0.0001 mL	0.0007 mL	0.0014 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481