

Ulocuplumab

Chemical Properties

CAS No. : 1375830-34-4

Formula:

Molecular Weight: 146.23 kDa

Storage: Store at low temperature
-20°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Ulocuplumab (BMS-936564) is a fully human anti-CXCR4 IgG4 antibody. Ulocuplumab exhibits antitumor activity in acute myeloid leukemia (AML), non-Hodgkin's lymphoma (NHL), and multiple myeloma transplantation models. Ulocuplumab inhibits the migration of chronic lymphocytic leukemia (CLL) cells under CXCR4 activation, induces apoptosis, and inhibits the growth and migration of cancer cells. Ulocuplumab inhibits CXCL12-mediated chronic lymphocytic leukemia (CLL) cell migration in response to CXCR4 activation and induces apoptosis.)
Targets(IC50)	Apoptosis, CXCR
In vitro	Ulocuplumab (0-100 μ M; 48 h) lacks antibody-dependent cell-mediated cytotoxicity (ADCC) or complement-dependent cytotoxicity (CDC) activity. However, it induces CXCR4-binding-mediated apoptosis in Ramos cells and CLL or cancer cell lines. It also demonstrates pro-apoptotic effects in primary leukemia cells from CLL patients [1]. Ulocuplumab (0.2 μ M, 2 μ M; 15 s) inhibits F-actin polymerization, reduces peak responses to CXCL12, and (20 nM-2 μ M; 1 h) additionally inhibits cell migration [1]. At a concentration of 200 nM for 6 hours, Ulocuplumab induces programmed cell death (PCD) independently of caspases [1]. Ulocuplumab (10 μ g/mL; 4 h) induces cell death in CLL cells by generating reactive oxygen species (ROS) [1]. Ulocuplumab inhibits CXCL12-induced calcium flux, with an EC50 of 10 nM in Ramos cells [2].
In vivo	Ulocuplumab (3-30 mg/kg; intraperitoneal injection; 5 doses over 3-4 days; a total of 65 days) inhibits tumor growth in a murine multiple myeloma xenograft model, including tumor models with Ramos B cells, HL-60 cells, MOLP-8 cells, Nomo-1 cells, and JJN-3R cells [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.0068 mL	0.0342 mL	0.0684 mL
5 mM	0.0014 mL	0.0068 mL	0.0137 mL
10 mM	0.0007 mL	0.0034 mL	0.0068 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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