

## Mogamulizumab

## Chemical Properties

CAS No. : 1159266-37-1

Formula:

Molecular Weight: 146.43 kDa

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

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Mogamulizumab (KW-0761) is a monoclonal antibody targeting T cell CC chemokine receptor 4. It exhibits anticancer activity by eliminating tumor cells through antibody-dependent cytotoxicity (ADCC) and can be used in the study of cancer, adult T-cell leukemia/lymphoma (ATLL), and cutaneous T-cell lymphoma (CTCL).
Targets(IC50)	CCR,CXCR
In vitro	In the presence of PBMCs, Mogamulizumab (10 µg/mL, 24 h) induces ADCC activity against CCR4-positive cell lines (SNT8, SNT16, SNK6, and KAI3)[2]. In PBMCs from patients with HTLV-1-associated myelopathy/tropical spastic paraparesis (HAM/TSP), Mogamulizumab (10 µg/mL, 3 days) reduces the human T-lymphotropic virus type 1 (HTLV-1) proviral load and inhibits spontaneous proliferation[3]. Cultured PBMCs from patients with HAM/TSP treated with Mogamulizumab (1 µg/mL, 5 days) eliminate CD4+CCR4+ T cells[3].
In vivo	In a murine xenograft model, Mogamulizumab (1 mg/kg, i.p., twice per week for 4 weeks) inhibits the growth of EBV-positive NK-cell lymphomas when combined with PBMC transplantation[2]. In a canine bladder cancer-engrafted mouse model, Mogamulizumab (0.1 mg/kg, i.v., every other day) combined with canine PBMCs (administered every fourth day) inhibits tumor growth[4]. Mogamulizumab (0.01-1 mg/kg, i.v.) reduces circulating CD4+CCR4+ T cells in dogs, with no observed adverse effects[4].

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.0068 mL	0.0341 mL	0.0683 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

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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.

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