

Vedolizumab

Chemical Properties

CAS No. : 943609-66-3

Formula:

Molecular Weight: 146.80 kDa

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

Actual storage temperature shall be subject to the COA.

Vedolizumab

Biological Description

Description	Vedolizumab, a humanized monoclonal antibody, targets the $\alpha 4\beta 7$ integrin for treating Crohn's disease and ulcerative colitis.
Targets(IC50)	Integrin
Kinase Assay	Vedolizumab inhibition of high-affinity binding of MAdCAM-1 to human peripheral blood memory CD4+ T lymphocytes is tested. Peripheral blood (90 μ L) is incubated with a saturating concentration (3 μ g/mL) of MAdCAM-1-murine-Fc fusion protein and 4 mM MnCl ₂ in a final volume of 100 μ L for 1 h at room temperature, in the presence or absence of vedolizumab. After washing with assay buffer, the cells are stained with fluorescentlabeled anti-mouse IgG for 15 min at room temperature. After washing again, cells are incubated with mouse serum for 10 min at room temperature, followed by staining with anti-CD4 and anti-CD45RO antibodies for 15 min at room temperature. After washing, red blood cells are lysed with BD FACS lysing solution and analyzed by flow cytometry in a FACSCalibur with CellQuest Pro software[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.0068 mL	0.0341 mL	0.0681 mL
5 mM	0.0014 mL	0.0068 mL	0.0136 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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