# Data Sheet (Cat.No.T9914)



### Vedolizumab

## **Chemical Properties**

CAS No.: 943609-66-3

Formula:

Molecular Weight: 

Vedolizumab

Appearance: no data available

Storage: store at low temperature

store at -20°C

## **Biological Description**

Description	Vedolizumab is a humanized monoclonal antibody that targets the $\alpha 4\beta 7$ integrin for the treatment of 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 $\mu$ L) is incubated with a saturating concentration (3 $\mu$ g/mL) of MAdCAM-1-murine-Fc fusion protein and 4 mM MnCl2 in a final volume of 100 $\mu$ 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

#### Reference

Soler D, et al. The binding specificity and selective antagonism of vedolizumab, an anti-alpha4beta7 integrintherapeutic antibody in development for inflammatory bowel diseases. J Pharmacol Exp Ther. 2009 Sep;

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