
Product Data Sheet

Product Name: MLN3126

Cat. No.: GC65990

Chemical Properties

Cas. No. 628300-71-0

Formula $C_{21}H_{19}ClN_2O_5S$

M.Wt 446.9

Solubility DMSO : 25 mg/mL (55.94 mM; ultrasonic and warming and heat to 60°C)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

MLN3126 is an orally active and potent **CCR9** antagonist. MLN3126 inhibits CCL25-induced calcium mobilization and chemotaxis of mouse primary thymocytes, with an **IC₅₀** value of 6.3 nM for **calcium influx**^[1].

MLN3126 inhibits CCL25-induced calcium mobilization with an IC₅₀ value of 6.3 nM in CCR9 expressing cells^[1].

MLN3126 inhibits the binding of biotinylated CCL25 to CCR9 with an IC₅₀ of 14.2 nM^[1].

Cell Invasion Assay^[1]

Cell Line: Mouse thymocytes

Concentration: 0.01, 0.03, 0.1, 0.3, 1, 3 μM

Incubation

Time: 90 min

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Result: Inhibited CCL25-induced chemotaxis of mouse thymocytes.

MLN3126 (2.5% w/w; p.o.) decreases colonic level of IFN- γ , largely produced by T cells^[1].

MLN3126 (0.05, 0.25 and 1% (w/w); p.o.) has the potential activity for alleviating inflammatory bowel disease (IBD)^[1].

Animal Model: Activated T cell transferred colitis mouse model^[1]

Dosage: 0.05, 0.25 and 1% (w/w) (around 4 g/day)

Administration: Oral gavage; 21 days

Result: Blocked CCR9/CCL25 interaction by inhibiting migration of T cells to the colon and resulted in the amelioration of colitis.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA