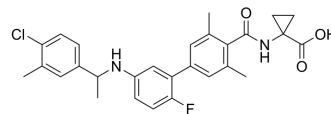


Ex26

Cat. No.:	HY-117213
CAS No.:	1233332-37-0
Molecular Formula:	C ₂₈ H ₂₈ ClFN ₂ O ₃
Molecular Weight:	494.98
Target:	LPL Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ex26 (S1P1-IN-Ex26) is a potent and selective sphingosine 1-phosphate receptor 1 (S1P ₁) antagonist (IC ₅₀ =0.93 nM). Ex26 shows >3,000-fold selectivity for S1P ₁ over other Sphingosine 1-phosphate receptors. Ex26 can be used in experimental autoimmune encephalomyelitis research ^[1] .								
IC₅₀ & Target	IC ₅₀ : 0.93 nM (S1P ₁) ^[1]								
In Vitro	<p>Ex26 (0-10 μM; 1 h) treatment shows excellent selectivity for S1P₁ over other Sphingosine 1-phosphate receptors^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>U2OS cells, and Chinese hamster ovary cells</td> </tr> <tr> <td>Concentration:</td> <td>0-10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>1 hour</td> </tr> <tr> <td>Result:</td> <td>Confirmed a potent and selective antagonist of S1P₁ (IC₅₀=0.93 nM).</td> </tr> </table>	Cell Line:	U2OS cells, and Chinese hamster ovary cells	Concentration:	0-10 μM	Incubation Time:	1 hour	Result:	Confirmed a potent and selective antagonist of S1P ₁ (IC ₅₀ =0.93 nM).
Cell Line:	U2OS cells, and Chinese hamster ovary cells								
Concentration:	0-10 μM								
Incubation Time:	1 hour								
Result:	Confirmed a potent and selective antagonist of S1P ₁ (IC ₅₀ =0.93 nM).								
In Vivo	<p>Ex26 (i.p.; 3 mg/kg; once daily; 3 d) treatment disrupts S1P₁ signaling inhibiting the lymphocyte and thymocyte egress^[1]. Ex26 (i.p.; 30 mg/kg; once daily; 15 d) treatment alleviates experimental autoimmune encephalomyelitis by S1P₁ antagonism^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Eight-week-old male C57Bl/6J mice^[1]</td> </tr> <tr> <td>Dosage:</td> <td>3 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Intraperitoneal injection; 3 mg/kg; once daily; 3 days</td> </tr> <tr> <td>Result:</td> <td>Induced lymphocyte sequestration at low doses, possessing an ED₅₀ of 0.06 mg/kg after 2 hours treatment. Led to significant retention of T and B cells within the lymph nodes and significant decreases in T and B cells within the spleen.</td> </tr> </table>	Animal Model:	Eight-week-old male C57Bl/6J mice ^[1]	Dosage:	3 mg/kg	Administration:	Intraperitoneal injection; 3 mg/kg; once daily; 3 days	Result:	Induced lymphocyte sequestration at low doses, possessing an ED ₅₀ of 0.06 mg/kg after 2 hours treatment. Led to significant retention of T and B cells within the lymph nodes and significant decreases in T and B cells within the spleen.
Animal Model:	Eight-week-old male C57Bl/6J mice ^[1]								
Dosage:	3 mg/kg								
Administration:	Intraperitoneal injection; 3 mg/kg; once daily; 3 days								
Result:	Induced lymphocyte sequestration at low doses, possessing an ED ₅₀ of 0.06 mg/kg after 2 hours treatment. Led to significant retention of T and B cells within the lymph nodes and significant decreases in T and B cells within the spleen.								

Animal Model:	Eight-week-old male C57Bl/6J mice induced with experimental autoimmune encephalomyelitis ^[1]
Dosage:	30 mg/kg
Administration:	Intraperitoneal injection; 30 mg/kg; once daily; 15 days
Result:	Inhibited both lymphocyte infiltration and destruction of the white matter in the spinal cord of mice euthanized at the end of the experiment.

REFERENCES

[1]. Stuart M Cahalan, et al. Sphingosine 1-phosphate receptor 1 (S1P(1)) upregulation and amelioration of experimental autoimmune encephalomyelitis by an S1P(1) antagonist. Mol Pharmacol. 2013 Feb;83(2):316-21.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA