

Fingolimod HCl

货号: F6720

储存条件: 粉末-20°C 可保存 3 年; 液体-80°C 可保存 12 月。

产品描述

Fingolimod HCl is the hydrochloride form of Fingolimod. Fingolimod is an S1p receptor modulator and also immunosuppressant. It can be primarily phosphorylated by SPHK2 to its active form fingolimod-P. Although fingolimod-P (but not parent fingolimod) could function as an agonist at S1P1, S1P4 and S1P5 receptors with EC50 values ranging in ~0.3–0.6nM and at 10-fold higher concentrations at S1P3 receptors with EC50 values of ~3 nM, it caused S1P receptors to internalize from cell membranes and induce ubiquitinylation and proteasomal degradation of the receptor. That is, effects of Fingolimod are inhibitory in the longer term on S1P receptor function. Fingolimod was used to treat for multiple sclerosis. Culture with FTY720 at concentration of 1µM for 22 hours could stimulate survival of the oligodendrocyte progenitors, and an activation of both MEK/ERK1/2 and PI3K/Akt pathways dependent on transforming to fingolimod-P by SphK could be observed. Fingolimod is highly effective in experimental autoimmune encephalomyelitis model. Administration of fingolimod at dose of 0.03 to 1 mg/kg could significant improve the symptoms of chronic experimental autoimmune encephalomyelitis induced by myelin oligodendrocyte glycoprotein in mice due to the reduction of infiltration of myelin antigen-specific Th17 and Th1 cells into the central nervous system.

作用机制

The aminodiol polar head group of fingolimod could be phosphorylated by SPHK2 and the lipophilic tail is important for interacting with the hydrophobic binding pocket of the S1P receptors.

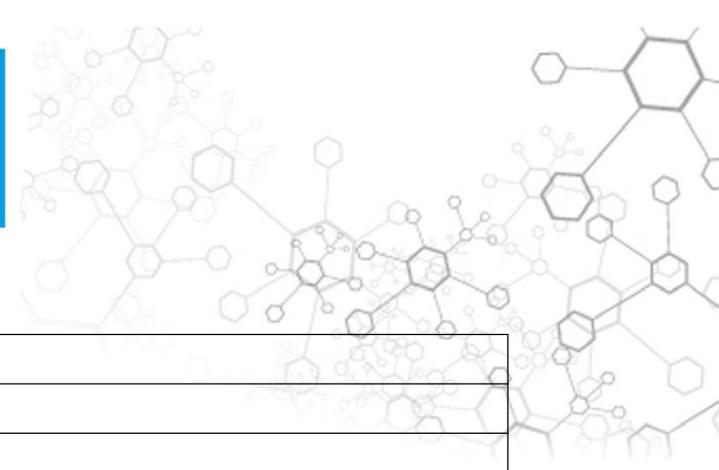
储存液制备	质量	1 mg	5 mg	10 mg
	1 mM	2.9076 mL	14.5378 mL	29.0755 mL
	5 mM	0.5815 mL	2.9076 mL	5.8151 mL
	10 mM	0.2908 mL	1.4538 mL	2.9076 mL





兰博利德 LABLEAD

高新技术企业



产品信息

别名	FTY720	
CAS号	162359-56-0	
分子式	C ₁₉ H ₃₄ ClNO ₂	
分子量	343.93	
溶解度	DMSO	68.0 mg/mL (197.7 mM)
	Water	68.0 mg/mL (197.7 mM)
	Ethanol	68.0 mg/mL (197.7 mM)

