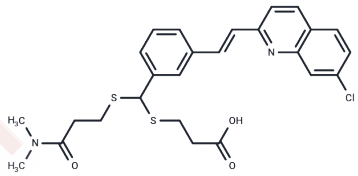
Data Sheet (Cat.No.T7841)

TargetMol

MK 571

Chemical Properties



CAS No. : 115104-28-4

Formula: C26H27ClN2O3S2

Molecular Weight: 515.09

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	MK 571 (L660711) is an orally active antagonist of CysLT1 receptor.
Targets(IC50)	LTR,Leukotriene Receptor,LPL Receptor,P-gp
In vivo	MK-571 effectively blocks LTD4 activation of recombinant human and murine CysLT1 receptors1,4 but is ineffective at blocking LTC4 or LTD4 activation of the recombinant human or murine CysLT2 receptors[1].

Solubility Information

Solubility	DMSO: 62.5 mg/mL (121.34 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9414 mL	9.707 mL	19.4141 mL
5 mM	0.3883 mL	1.9414 mL	3.8828 mL
10 mM	0.1941 mL	0.9707 mL	1.9414 mL
50 mM	0.0388 mL	0.1941 mL	0.3883 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.

Reference

Lynch K R , O'Neill G P , Liu Q , et al. Characterization of the human cysteinyl leukotriene CysLT1 receptor[J]. Nature, 1999, 399(6738):789-793.

Wu Z L, Chen Y, Qu Z, et al. An ester derivative of tenacigenin B from Marsdenia tenacissima (Roxb.) Wight et Arn reversed paclitaxel-induced MDR in vitro and in vivo by inhibiting both P-gp and MRP2. Journal of Ethnopharmacology. 2022: 115353

Ogasawara, H. Characterization of Mouse Cysteinyl Leukotriene Receptors mCysLT1 and mCysLT2. DIFFERENTIAL PHARMACOLOGICAL PROPERTIES AND TISSUE DISTRIBUTION[J]. Journal of Biological Chemistry, 2002, 277(21): 18763-18768.