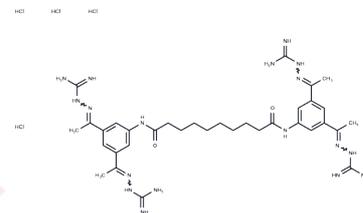


Semapimod tetrahydrochloride

Chemical Properties

CAS No. :	164301-51-3
Formula:	C34H56Cl4N18O2
Molecular Weight:	890.74
Appearance:	no data available
Storage:	keep away from direct sunlight,keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Semapimod tetrahydrochloride (CPSI-2364 tetrahydrochloride) is a synthetic ornithine mitogen-activated protein kinase blocker and pro-inflammatory cytokine production inhibitor that interferes with macrophage and microglia function. Sematimod tetrahydrochloride inhibits TLR4 signaling, TNF- α , IL-1 β , and IL-6, and is used in the study of Crohn's disease and other inflammatory conditions.
Targets(IC50)	TLR,MAPK
In vivo	In male OZ rats, Semapimod tetrahydrochloride (5 mg/kg; i.p.; once daily for 2 weeks) restored endothelium-dependent vasorelaxation[1].

Solubility Information

Solubility	DMSO: 1 mg/mL (1.12 mM),Sonication is recommended. H2O: 1 mg/mL (1.12 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1227 mL	5.6133 mL	11.2266 mL
5 mM	0.2245 mL	1.1227 mL	2.2453 mL
10 mM	0.1123 mL	0.5613 mL	1.1227 mL
50 mM	0.0225 mL	0.1123 mL	0.2245 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.

Reference

Nishimatsu H, et al. Blockade of endogenous proinflammatory cytokines ameliorates endothelial dysfunction in obese Zucker rats. Hypertens Res. 2008;31(4):737-743.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481