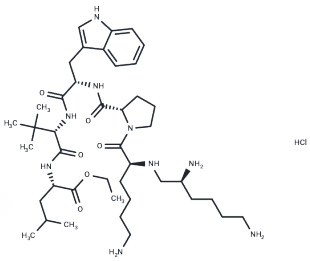
Data Sheet (Cat.No.T70271L)

TargetMol

PD-149163 hydrochloride

Chemical Properties



CAS No. :

Formula: C42H72ClN9O6

Molecular Weight: 834.53

Storage: Store at low temperature,Keep away from direct sunlight
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	PD-149163 hydrochloride is a neurokinin agonist with antipsychotic activity. It modulates bacterial endotoxin-induced neuroinflammation in mice and can be used in neurological disease research.
Targets(IC50)	EGFR
In vitro	PD-149163 hydrochloride improved lipopolysaccharide (LPS) -induced apoptosis of mouse gastrointestinal tract (GIT) cells in a dose-dependent manner. [2]
In vivo	PD-149163 hydrochloride (100-300 μg/kg, intraperitoneal administration) reversed LPS-induced reduction in the thickness of pyramidal cell layers, the number of pyramidal neurons, and structural dislocation, contraction, and damage in the hippocampus of mice. [1] PD-149163 hydrochloride (100-300 μg/kg, intraperitoneal administration) modulated the enteric toxicity of LPS in mice by utilizing its anti-inflammatory, antioxidant, and cell proliferative properties. [2]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1983 mL	5.9914 mL	11.9828 mL
5 mM	0.2397 mL	1.1983 mL	2.3966 mL
10 mM	0.1198 mL	0.5991 mL	1.1983 mL
50 mM	0.024 mL	0.1198 mL	0.2397 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

Mishra A, Singh KP. Neurotensin agonist PD 149163 modulates the neuroinflammation induced by bacterial endotoxin lipopolysaccharide in mice model. Immunopharmacol Immunotoxicol. 2022 Apr;44(2):216-226.

Singh, P., Mohanty, B. Neurotensin receptor agonist PD149163 modulates LPS-induced enterocyte apoptosis by downregulating TNFR pathway and executioner caspase 3 in endotoxemic mice: insights from in vivo and in silico study. Naunyn-Schmiedeberg's Arch Pharmacol (2025).

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481