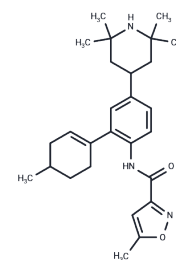


CSF1R-IN-23

Chemical Properties

CAS No. :	2935480-17-2
Formula:	C ₂₇ H ₃₇ N ₃ O ₂
Molecular Weight:	435.6
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	CSF1R-IN-23 (Compound 7dri), a selective colony-stimulating factor-1 receptor (CSF1R) inhibitor, exhibits an IC ₅₀ of 36.1 nM. This compound acts as an antineuroinflammatory agent in a mouse model and is noted for its blood-brain barrier (BBB) permeability [1].
Targets(IC ₅₀)	c-Fms
In vitro	CSF1R-IN-23, at concentrations of 0-10 μM for 30 minutes, inhibits CSF1R autophosphorylation in RAW264.7 cells and microglial cells EOC20 without significant cytotoxicity [1]. Western Blot Analysis [1]. Cell Line: EOC20 and RAW264.7. Concentration: 0-10 μM. Incubation Time: 30 min. Result: Inhibited phosphorylation of CSF1R.
In vivo	CSF1R-IN-23, administered at 0.5 mg/kg via intraperitoneal injection every two days for a total of four doses, can ameliorate neuroinflammation induced by lipopolysaccharide in the C57BL/6J mouse model [1]. In this model, 76% of microglia in the hippocampus, cortex, and thalamus are eliminated. Animal Model: LPS-induced neuroinflammation in C57BL/6J mice [1]. Dosage: 0.5 mg/kg. Administration: i.p., every two days for four doses. Result: Eliminated 76% of microglia in hippocampus, cortex, and thalamus.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2957 mL	11.4784 mL	22.9568 mL
5 mM	0.4591 mL	2.2957 mL	4.5914 mL
10 mM	0.2296 mL	1.1478 mL	2.2957 mL
50 mM	0.0459 mL	0.2296 mL	0.4591 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.

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:34 Washington Street,Wellesley Hills,MA 02481