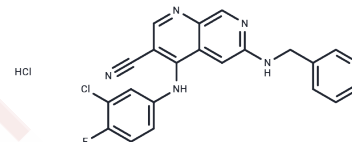


Tpl2 Kinase Inhibitor 1 hydrochloride

Chemical Properties

CAS No. :	2934185-09-6
Formula:	C ₂₁ H ₁₅ Cl ₂ FN ₆
Molecular Weight:	441.29
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	Tpl2 Kinase Inhibitor 1 hydrochloride is a selective Tpl2 inhibitor with an IC ₅₀ value of 50 nM. Tpl2 encompasses COT kinase and MAP3K8, and this inhibitor is applicable for research related to inflammatory responses and certain types of cancer.
Targets(IC ₅₀)	MAPK,p38 MAPK
In vitro	Tpl2 (Cot/MAP3K8) is a serine/threonine kinase within the MAP3K family, acting upstream of MEK in the ERK pathway. The Cancer Osaka thyroid (COT) kinase (Tpl2) plays a critical role as a regulator of pro-inflammatory cytokines in macrophages. Tpl2 Kinase Inhibitor 1 (Compound 2p) hydrochloride also inhibits MK2 and p38 with IC ₅₀ values of 110 μM and 180 μM in A431 cells, respectively. This inhibitor suppresses the production of TNF-α in lipopolysaccharide-induced human primary monocytes and human whole blood, with IC ₅₀ values of 0.7 μM and 8.5 μM, respectively.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2661 mL	11.3304 mL	22.6608 mL
5 mM	0.4532 mL	2.2661 mL	4.5322 mL
10 mM	0.2266 mL	1.133 mL	2.2661 mL
50 mM	0.0453 mL	0.2266 mL	0.4532 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

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