

NDI-034858

Chemical Properties

CAS No. : 2272904-53-5

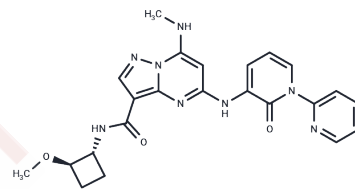
Formula: C₂₃H₂₄N₈O₃

Molecular Weight: 460.49

Store at low temperature

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	NDI-034858 (TAK-279) is a tyrosine kinase 2 (TYK2) inhibitor (Kd<200 pM) that targets the JH2 structural domain of Tyk2 for the treatment of autoimmune diseases caused by aberrant expression of IL12 and IL23.
Targets(IC50)	IL Receptor,JAK,Tyrosine Kinases
In vitro	NDI-034858 (compound I-908) (10 μM) demonstrates inhibitory activity against Tyk2 and JAK enzymes. It achieves this by targeting the Tyk2 JH1 domain and the JAK JH1 domain, resulting in inhibition rates of less than 50% for both enzymes.[2]

Solubility Information

Solubility	DMSO: 45 mg/mL (97.72 mM),Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1716 mL	10.858 mL	21.716 mL
5 mM	0.4343 mL	2.1716 mL	4.3432 mL
10 mM	0.2172 mL	1.0858 mL	2.1716 mL
50 mM	0.0434 mL	0.2172 mL	0.4343 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

Leit S, et al. Discovery of a Potent and Selective Tyrosine Kinase 2 Inhibitor: TAK-279. J Med Chem. 2023;66(15): 10473-10496.

Masse, et al. Pyrazolopyrimidines as TYK2 inhibitors and their preparation: World Intellectual Property Organization, WO2019023468.

Deng L, et al. Recent progress on tyrosine kinase 2 JH2 inhibitors. Int Immunopharmacol. 2023;121:110434.

Nielsen OH, et al. Selective tyrosine kinase 2 inhibitors in inflammatory bowel disease. Trends Pharmacol Sci. 2022;43(5):424-436.

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