

GSK180

Chemical Properties

CAS No. : 1799725-26-0

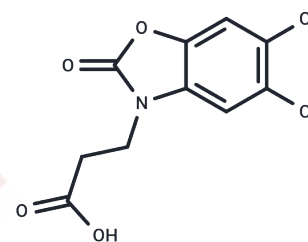
Formula: C₁₀H₇Cl₂N₂O₄

Molecular Weight: 276.07

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	GSK180 is a selective, competitive, and highly potent inhibitor of kynurenine-3-monooxygenase (KMO), a critical enzyme in the tryptophan metabolic pathway, with an IC ₅₀ value of approximately 6 nM, displaying minimal off-target activity against other tryptophan pathway enzymes, rapidly altering kynurenine metabolite profiles, GSK180 serves as a powerful research tool for probing the biological and therapeutic implications of KMO inhibition in metabolic, neurological, and inflammatory disease models.
Targets(IC ₅₀)	Hydroxylase
In vitro	GSK180 inhibits endogenous KMO activity in primary human hepatocytes (IC ₅₀ =2.6 μM) and it also inhibits rat KMO slightly less potently than the human enzyme (IC ₅₀ =7 μM).
In vivo	GSK180 is fit for i.v. management [1].

Solubility Information

Solubility	DMSO: 200 mg/mL (724.45 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6223 mL	18.1113 mL	36.2227 mL
5 mM	0.7245 mL	3.6223 mL	7.2445 mL
10 mM	0.3622 mL	1.8111 mL	3.6223 mL
50 mM	0.0724 mL	0.3622 mL	0.7245 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

Mole DJ, et al. Kynurenine-3-monooxygenase inhibition prevents multiple organ failure in rodent models of acute pancreatitis. Nat Med. 2016 Feb;22(2):202-9.

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