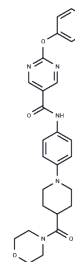


TFC-007

## Chemical Properties

CAS No. : 927878-49-7  
 Formula: C<sub>27</sub>H<sub>29</sub>N<sub>5</sub>O<sub>4</sub>  
 Molecular Weight: 487.55  
 Storage: Store at low temperature  
 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	TFC-007 is a selective and efficient hematopoietic prostaglandin D synthase (H-PGDS) inhibitor, suppressing inflammatory factors. It can be used to synthesize H-PGDS degrader PROTAC (H-PGDS)-1 and study cedar pollen-induced guinea pig allergic rhinitis.
Targets(IC50)	Ligands for E3 Ligase, Ligands for Target Protein for PROTAC, PGE Synthase
In vitro	TFC-007 is a highly selective inhibitor of hematopoietic prostaglandin D synthase (H-PGDS), inhibiting H-PGDS enzyme with high activity and an IC <sub>50</sub> value of 83 nM. [1]

## Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0511 mL	10.2554 mL	20.5107 mL
5 mM	0.4102 mL	2.0511 mL	4.1021 mL
10 mM	0.2051 mL	1.0255 mL	2.0511 mL
50 mM	0.041 mL	0.2051 mL	0.4102 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

Yokoo H, et al. Development of a Hematopoietic Prostaglandin D Synthase-Degradation Inducer. ACS Med Chem Lett. 2021 Jan 14;12(2):236-241.

Nabe T, et al. Inhibition of hematopoietic prostaglandin D synthase improves allergic nasal blockage in guinea pigs. Prostaglandins Other Lipid Mediat. 2011 Aug;95(1-4):27-34.

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