

ISM012-042

## Chemical Properties

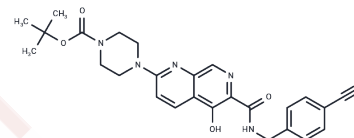
CAS No. :

Formula: C<sub>26</sub>H<sub>28</sub>N<sub>6</sub>O<sub>4</sub>

Molecular Weight: 488.538

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	ISM012-042 is an orally active inhibitor of PHD1 and PHD2, with IC <sub>50</sub> values of 1.9 and 2.5 nM, respectively. At a concentration of 2.5 μM, ISM012-042 protects Caco-2 cells from DSS-induced barrier damage. Additionally, in LPS-induced bone marrow-derived dendritic cells (BMDC) from mice, ISM012-042 exhibits anti-inflammatory properties by dose-dependently reducing the expression of IL-12 subunit IL-12p35 and TNF. It also restores intestinal barrier function and alleviates intestinal inflammation in various experimental colitis models. ISM012-042 is useful for studying intestinal mucosal repair and immune disorders.
Targets(IC <sub>50</sub> )	HIF/HIF Prolyl-Hydroxylase

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0469 mL	10.2346 mL	20.4692 mL
5 mM	0.4094 mL	2.0469 mL	4.0938 mL
10 mM	0.2047 mL	1.0235 mL	2.0469 mL
50 mM	0.0409 mL	0.2047 mL	0.4094 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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