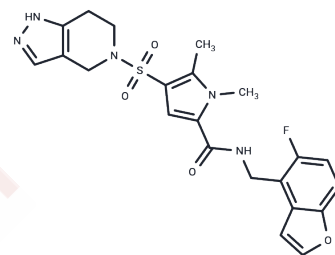


TDI-015051

## Chemical Properties

CAS No. : 3052313-73-9  
 Formula: C<sub>22</sub>H<sub>22</sub>FN<sub>5</sub>O<sub>4</sub>S  
 Molecular Weight: 471.505  
 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	TDI-015051 is an orally active inhibitor of SARS-CoV-2 non-structural protein 14 (SARS-CoV-2 NSP14) with an IC <sub>50</sub> of ≤0.15 nM. It effectively inhibits SARS-CoV-2 NSP14 in Huh-7.5 cells (EC <sub>50</sub> =11.4 nM) and A549 cells expressing ACE2-TMPRSS2 (EC <sub>50</sub> =64.7 nM). Additionally, TDI-015051 suppresses other coronaviruses such as α-hCoV-NL63, α-hCoV-229E, and β-hCoV-MERS with IC <sub>50</sub> values of 1.7, 2.6, and 3.6 nM, respectively. This compound inhibits viral RNA methylation and replication by binding to a stable SAH-cap pocket and demonstrates anti-infection activity in mouse models.
Targets(IC <sub>50</sub> )	DNA Methyltransferase,SARS-CoV

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1208 mL	10.6042 mL	21.2085 mL
5 mM	0.4242 mL	2.1208 mL	4.2417 mL
10 mM	0.2121 mL	1.0604 mL	2.1208 mL
50 mM	0.0424 mL	0.2121 mL	0.4242 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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