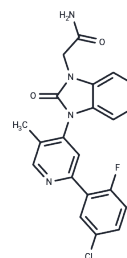


TP-008

## Chemical Properties

CAS No. : 1976038-41-1  
 Formula: C<sub>20</sub>H<sub>15</sub>ClFN<sub>5</sub>O<sub>2</sub>  
 Molecular Weight: 411.82  
 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	TGFβRI-IN-2 is a selective, potent and orally active inhibitor of (Activin-Like Kinase 5) ALK 5 (pIC <sub>50</sub> and pEC <sub>50</sub> values of 7.6 and 6.63, respectively).
Targets(IC <sub>50</sub> )	Others, TGF-beta/Smad
In vitro	Umbralisib R-enantiomer exhibits IC <sub>50</sub> with respect to the δ type PI3-kinase that is at least 20-fold lower than the inhibitor's IC <sub>50</sub> with respect to the rest of the other PI3K isoforms (i.e., α, β, and γ).
In vivo	TGFβRI-IN-2 oral administration with 50, 150 and 500 mg/kg and 5 days induces cardiovascular toxicity characterized by valvular interstitial cell proliferation, neutrophil presence, hemorrhage and fibrin deposition in the heart valves.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4282 mL	12.1412 mL	24.2825 mL
5 mM	0.4856 mL	2.4282 mL	4.8565 mL
10 mM	0.2428 mL	1.2141 mL	2.4282 mL
50 mM	0.0486 mL	0.2428 mL	0.4856 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

Wang H, et al. Design, synthesis and optimization of novel Alk5 (activin-like kinase 5) inhibitors. *Bioorg Med Chem Lett.* 2016 Sep 1;26(17):4334-9.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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