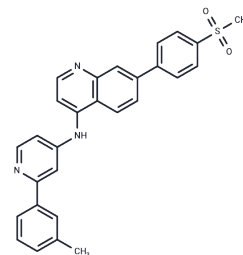


## TGFβRI-IN-3

## Chemical Properties

CAS No. :	2763602-67-9
Formula:	C <sub>28</sub> H <sub>23</sub> N <sub>3</sub> O <sub>2</sub> S
Molecular Weight:	465.57
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-3 is a highly selective TGFβRI inhibitor with an IC <sub>50</sub> of 0.79 nM and exhibits 2000-fold selectivity against MAP4K4, showing potential applications in immunoncology [1].
Targets(IC <sub>50</sub> )	TGF-beta/Smad
In vitro	TGFβRI-IN-3 inhibits TGFβRI at an IC <sub>50</sub> of 0.79 nM, 2000-fold selectivity for MAP4K4 [1].

## Solubility Information

Solubility	DMSO: 50 mg/mL (107.4 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.3 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.1479 mL	10.7395 mL	21.479 mL
5 mM	0.4296 mL	2.1479 mL	4.2958 mL
10 mM	0.2148 mL	1.074 mL	2.1479 mL
50 mM	0.043 mL	0.2148 mL	0.4296 mL

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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

Kharbanda A, et al. Discovery of 4-aminoquinolines as highly selective TGF $\beta$ R1 inhibitors with an attenuated MAP4K4 profile for potential applications in immuno-oncology [published online ahead of print, 2021 Aug 12]. Eur J Med Chem. 2021;225:113763.

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