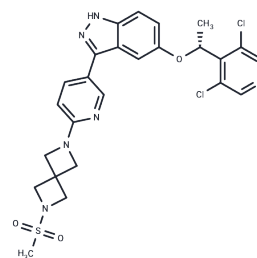


TYRA-300

## Chemical Properties

CAS No. : 2800223-30-5  
 Formula: C<sub>25</sub>H<sub>24</sub>Cl<sub>2</sub>N<sub>6</sub>O<sub>3</sub>S  
 Molecular Weight: 559.47  
 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	TYRA-300 is an oral and selective FGFR3 inhibitor with an IC <sub>50</sub> value of 11 nM and 25-fold, 14-fold, and 36-fold selectivity for FGFR1, FGFR2, and FGFR4, respectively, in the Ba/F3 cell line for the treatment of metastatic uroepithelial carcinomas (mUCs) and chondrodysplasia.
Targets(IC <sub>50</sub> )	FGFR

## Solubility Information

Solubility	DMSO: 150 mg/mL (268.11 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 5 mg/mL (8.94 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

	1mg	5mg	10mg
1 mM	1.7874 mL	8.937 mL	17.8741 mL
5 mM	0.3575 mL	1.7874 mL	3.5748 mL
10 mM	0.1787 mL	0.8937 mL	1.7874 mL
50 mM	0.0357 mL	0.1787 mL	0.3575 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

Hudkins RL, et al., Discovery of TYRA-300: First Oral Selective FGFR3 Inhibitor for the Treatment of Urothelial Cancers and Achondroplasia. J Med Chem. 2024 Sep 26;67(18):16737-16756.

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