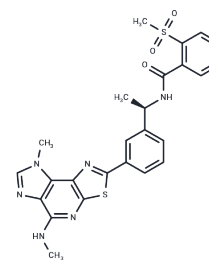


## Tyk2-IN-3

## Chemical Properties

CAS No. :	1779493-12-7
Formula:	C <sub>25</sub> H <sub>24</sub> N <sub>6</sub> O <sub>3</sub> S <sub>2</sub>
Molecular Weight:	520.63
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	Tyk2-IN-3 is an inhibitor of Tyk2 pseudokinase (IC <sub>50</sub> : 485 nM).
Targets(IC <sub>50</sub> )	JAK, Tyrosine Kinases
In vivo	Tyk2-IN-3 is very potent Tyk2 pseudokinase against (99% inhibition at 1 μM) but lacks potency against all other kinases in the kinome assay panel except IKK (96% inhibition) and the JAK1 pseudokinase domain (99% inhibition at 1 μM). The pseudokinase domains of JAK2 and JAK3 are not part of the kinome screening panel. In the IL-23-stimulated kit225 T cell assay, Tyk2-IN-3 inhibits the stimulated response with an IC <sub>50</sub> of 485±143 nM (n=3).

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9207 mL	9.6037 mL	19.2075 mL
5 mM	0.3841 mL	1.9207 mL	3.8415 mL
10 mM	0.1921 mL	0.9604 mL	1.9207 mL
50 mM	0.0384 mL	0.1921 mL	0.3841 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

Tokarski JS, et al. Tyrosine Kinase 2-mediated Signal Transduction in T Lymphocytes Is Blocked by Pharmacological Stabilization of Its Pseudokinase Domain. J Biol Chem. 2015 Apr 24;290(17):11061-74.

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