Tyk2-IN-7

Cat. No.: HY-126242S

CAS No.: 1609391-90-3

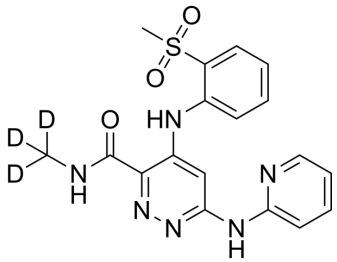
Molecular Formula: $C_{18}H_{15}D_3N_6O_3S$

Molecular Weight: 401.46

Target: JAK

Pathway: Epigenetics; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Stem Cell/Wnt

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (249.09 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4909 mL	12.4545 mL	24.9091 mL
	5 mM	0.4982 mL	2.4909 mL	4.9818 mL
	10 mM	0.2491 mL	1.2455 mL	2.4909 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Tyk2-IN-7 is a TYK2 JH2 inhibitor, binds to TYK2 JH2 domain with IC50 and Ki.app of 0.00053 μM and 0.00007 μM, respectively. Tyk2-IN-7 provides a highly selective alternative to conventional TYK2 orthosteric inhibitors, inhibits TYK2/JAK1/JAK2 kinase domain. Tyk2-IN-7 provides robust inhibition in a mouse IL-12-induced IFNγ pharmacodynamic model as well as efficacy in an IL-23 and IL-12-dependent mouse colitis model[1].

IC_{50} & Target		
	Tyk2 JH2 0.00053 μM (IC_{50})	Tyk2 JH2 0.00007 μM (Ki app)

REFERENCES

[1]. Moslin R, et al. Identification of N-Methyl Nicotinamide and N-Methyl Pyridazine-3-Carboxamide Pseudokinase Domain Ligands as Highly Selective Allosteric Inhibitors of Tyrosine Kinase 2 (TYK2). J Med Chem. 2019 Jul 17.

Caution: Product has not been fully validated for medical applications. For research use only.

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