

Product Data Sheet

PI3K-IN-1

Storage:

Cat. No.:HY-12068CAS No.:1349796-36-6Molecular Formula: $C_{31}H_{29}N_5O_6S$ Molecular Weight:599.66Target:PI3K

.

Pathway: PI3K/Akt/mTOR

Powder -20° C 3 years 4° C 2 years

In solvent -80°C 2 years

-20°C 1 year

SOLVENT & SOLUBILITY

In Vitro DMSO: 27.5 mg/mL (45.86 mM; Need ultrasonic and warming)

 $H_2O: < 0.1 \text{ mg/mL (insoluble)}$

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	1.6676 mL	8.3381 mL	16.6761 mL
	5 mM	0.3335 mL	1.6676 mL	3.3352 mL
	10 mM	0.1668 mL	0.8338 mL	1.6676 mL

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

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.17 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline) Solubility: 2.5 mg/mL (4.17 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description	PI3K-IN-1 (XL-147 derivative 1) is a potent inhibitor of PI3K. PI3K-IN-1 (25 μ M) blocks PI3K/Akt signaling pathways [1].
IC ₅₀ & Target	PI3K
In Vitro	PI3K-IN-1 (25 μ M) blocks PI3K/Akt signaling pathways. By using the PI3K inhibitor PI3K-IN-1, TGF- β 1 induced transformation into myofibroblast is also inhibited, with relatively reduced expressions of α -SMA, Col-1 and Timp-1 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cell Death Dis. 2021 Jul 9;12(7):691.
- Br J Pharmacol. 2022 Jan;179(1):159-178.
- Front Bioeng Biotechnol. 2020 May 8;8:392.
- Bioengineered. 2022 Mar;13(3):6866-6879.
- J Tissue Eng Regen Med. 2021 Sep 20.

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REFERENCES		
REFERENCES		

[1]. Mingyu Hao, et al. Exploring the Role of SRC in Extraocular Muscle Fibrosis of the Graves' Ophthalmopathy. Front Bioeng Biotechnol. 2020 May 8;8:392.

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

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