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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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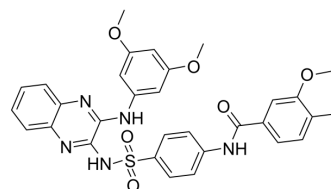
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PI3K-IN-1

Cat. No.:	HY-12068		
CAS No.:	1349796-36-6		
Molecular Formula:	C ₃₁ H ₂₉ N ₅ O ₆ S		
Molecular Weight:	599.66		
Target:	PI3K		
Pathway:	PI3K/Akt/mTOR		
Storage:	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)
H₂O : < 0.1 mg/mL (insoluble)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	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

- 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
- 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 μM) blocks PI3K/Akt signaling pathways ^[1] .
IC ₅₀ & Target	PI3K
In Vitro	PI3K-IN-1 (25 μM) blocks PI3K/Akt signaling pathways. By using the PI3K inhibitor PI3K-IN-1, TGF-β1 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.
- Heliyon. 2024 Jan 2.

See more customer validations on www.MedChemExpress.com

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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