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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
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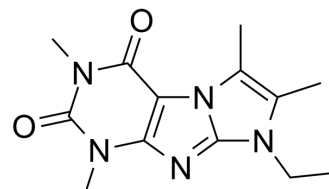
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SJ572403

Cat. No.:	HY-114712
CAS No.:	19970-45-7
Molecular Formula:	C ₁₃ H ₁₇ N ₅ O ₂
Molecular Weight:	275.31
Target:	Others
Pathway:	Others
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 : 13.89 mg/mL (50.45 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		3.6323 mL	18.1613 mL	36.3227 mL
		5 mM		0.7265 mL	3.6323 mL	7.2645 mL
		10 mM		0.3632 mL	1.8161 mL	3.6323 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: ≥ 1.39 mg/mL (5.05 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.39 mg/mL (5.05 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.39 mg/mL (5.05 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	SJ572403 (SJ403) is a p27 ^{Kip1} inhibitor. SJ572403 has high specificity for specific regions within the D2 subdomain of p27-KID with a K _d value of 2.2 mM. SJ572403 can be used for the research of diseases associated with intrinsically disordered proteins (IDPs) ^[1] .
IC ₅₀ & Target	Kd: 2.2 mM (p27-KID) ^[1]
In Vitro	SJ572403 (SJ403) (3 mM) shows specific interactions with specific regions within the D2 subdomain of p27-KID with a K _d

value of 2.2 mM^[1].

SJ572403 (0-3 mM) modulates p27's Cdk regulatory^[1].

SJ572403 (10 μM-3 mM) displaces p27-D2 from Cdk2/cyclin A and partially restores Cdk2 kinase activity^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- J Hepatocell Carcinoma. 2021 Nov 3;8:1323-1338.
- In Vitro Cell Dev Biol Anim. 2021 Aug 5.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Pablo Herrera-Nieto, et al. Small Molecule Modulation of Intrinsically Disordered Proteins Using Molecular Dynamics Simulations. J Chem Inf Model. 2020 Oct 26;60(10):5003-5010.

[2]. Iconaru LI, et al. Discovery of Small Molecules that Inhibit the Disordered Protein, p27(Kip1). Sci Rep. 2015 Oct 28;5:15686.

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

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