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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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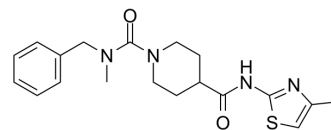
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H3B-120

Cat. No.:	HY-136128
CAS No.:	2194903-42-7
Molecular Formula:	C ₁₉ H ₂₄ N ₄ O ₂ S
Molecular Weight:	372.48
Target:	Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
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 : 62.5 mg/mL (167.79 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.6847 mL	13.4235 mL	26.8471 mL
		5 mM		0.5369 mL	2.6847 mL	5.3694 mL
		10 mM		0.2685 mL	1.3424 mL	2.6847 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: ≥ 2.08 mg/mL (5.58 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.58 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.58 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	H3B-120 is a highly selective, competitive and allosteric carbamoyl phosphate synthetase 1 (CPS1) inhibitor with an IC ₅₀ of 1.5 μM and a K _i of 1.4 μM. H3B-120 has anti-cancer activity ^[1] .
IC ₅₀ & Target	IC ₅₀ : 1.5 μM (CPS1) ^[1] K _i : 1.4 μM (CPS1) ^[1]
In Vitro	H3B-120 has no inhibition of CPS2 activity of CAD (CPS2, aspartyl transcarbamylase, dihydroorotase) ^[1] .

H3B-120 achieves inhibition by binding to an allosteric pocket situated between the integrating and ATP A domains^[1].
H3B-120 (25, 50, 75, 100 μ M) inhibits urea production in a dose-dependent manner, although the cellular potency decreases significantly compared with enzymatic assays^[1].
The half-life of H3B-120 is only 40 min^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yao S, et al. Small Molecule Inhibition of CPS1 Activity through an Allosteric Pocket. Cell Chem Biol. 2020 Mar 19;27(3):259-268.

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

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