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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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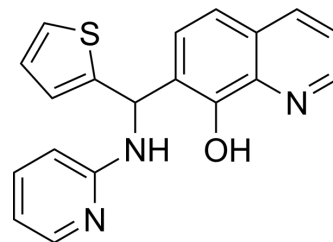
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IMB-XH1

Cat. No.:	HY-12826
CAS No.:	292057-76-2
Molecular Formula:	C ₁₉ H ₁₅ N ₃ OS
Molecular Weight:	333.41
Target:	Bcl-2 Family; Bacterial; Beta-lactamase
Pathway:	Apoptosis; Anti-infection
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 : 33.33 mg/mL (99.97 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.9993 mL	14.9966 mL	29.9931 mL
		5 mM		0.5999 mL	2.9993 mL	5.9986 mL
		10 mM		0.2999 mL	1.4997 mL	2.9993 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 (6.24 mM); Suspended solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.24 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (6.24 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	IMB-XH1 is an inhibitor of myeloid cell factor 1 (Mcl-1) ^[1] . IMB-XH1 is a non-competitive Delhi metallo-β-lactamase (NDM-1) inhibitor. The IC ₅₀ s of IMB-XH1 against metallo-β-lactamases NDM-1, IMP-4, ImiS and L1 are 0.4637 μM, 3.980 μM, 0.2287 μM and 1.158 μM, respectively ^[2] .
IC ₅₀ & Target	Mcl-1
In Vitro	IMB-XH1 (Compound 2) is a Mcl-1 inhibitor ^[1] . IMB-XH is screened out with the IC ₅₀ value of 0.4637 μM at the concentration of

20 µg/mL. IMB-XH1 (20 µg/mL) can increase the sensitivity of E. coli BL21 (DE3) (pET-30a(+)-NDM-1) to ampicillin by more than 8 times. IMB-XH1 may have a broad spectrum of metallo-β-lactamases (MBLs) inhibitory activity. The combination of IMB-XH1 and Meropenem (MEM) may have potentials to treat infections caused by metallo-β-lactamases-positive, carbapenem-resistant Gram-negative pathogens^[2].

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

REFERENCES

[1]. Richard DJ, et al. Hydroxyquinoline-derived compounds and analoguing of selective Mcl-1 inhibitors using a functional biomarker. Bioorg Med Chem. 2013 Nov 1;21(21):6642-9.

[2]. Jiangxue Han, et al. IMB-XH1 identified as a novel inhibitor of New Delhi metallo-β-lactamase-1.

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

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