BAMB-4

Cat. No.:	HY-16694				
CAS No.:	891025-25-5				
Molecular Formula:	C ₁₅ H ₁₂ N ₂ O ₂				
Molecular Weight:	252.27				
Target:	Phosphatase				
Pathway:	Metabolic Enzyme/Protease				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	2 years		
		-20°C	1 year		

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SOLVENT & SOLUBILITY

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	3.9640 mL	19.8200 mL	39.6401 mL
	5 mM	0.7928 mL	3.9640 mL	7.9280 mL	
		10 mM	0.3964 mL	1.9820 mL	3.9640 mL

BIOLOGICAL ACTIV	
Description	BAMB-4 (ITPKA-IN-C14) is a specific and membrane-permeable ITPKA inhibitor. BAMB-4 has high stability and membrane permeability and against the inositol-1,4,5-trisphosphate (InsP3) kinase activity of inositol-1,4,5-trisphosphate-3-kinase A (ITPKA) with an IC ₅₀ value of 20 μM. BAMB-4 can be used for the research of metastasis of lung cancer ^[1] .
IC₅₀ & Target	IC50: 37 μM (ITPKA); 20 μM (InsP3 kinase) ^[1]
In Vitro	BAMB-4 (0.3-40 μM) has ITPKA inhibiton effect with an IC ₅₀ value of 37 μM ^[1] . BAMB-4 (40 μM) inhibits InsP3 kinase activity with an IC ₅₀ value of 20 μM ^[1] . BAMB-4 (100 μM, overnight) has high specificity and the high cellular uptake ^[1] . BAMP-4 (0, 10, 20 and 40 μM) shows increased K _m and decreased V _{max} ^[1] . BAMP-4 (0-30 μM) is a mixed type inhibitor with respect to ATP and InsP3 and does not only affect binding of ATP but also

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binding of InsP3[®]which affects turnover of two substrate exhibit a higher inhibition specifcity^[1].

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

REFERENCES

[1]. Dominik Schröder, et al. Identification of a new membrane-permeable inhibitor against inositol-1,4,5-trisphosphate-3-kinase A. Biochem Biophys Res Commun

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

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