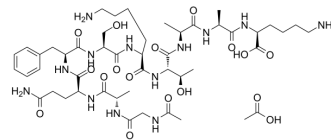


BIO-11006 acetate

Cat. No.:	HY-106377A
Molecular Formula:	C ₄₈ H ₇₉ N ₁₃ O ₁₇
Molecular Weight:	1110.22
Target:	Others
Pathway:	Others
Storage:	Sealed storage, away from moisture
	Powder -80°C 2 years
	-20°C 1 year



* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 50 mg/mL (45.04 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	0.9007 mL	4.5036 mL	9.0072 mL
			5 mM	0.1801 mL	0.9007 mL	1.8014 mL
			10 mM	0.0901 mL	0.4504 mL	0.9007 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 20 mg/mL (18.01 mM); Clear solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (2.25 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (2.25 mM); Clear solution					
	4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (2.25 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	BIO-11006 acetate, an analog of the MANS peptide, is a MARCKS (myristoylated alanine-rich C kinase substrate) inhibitor ^[1] .
IC ₅₀ & Target	Myristoylated alanine-rich C kinase substrate ^[1]
In Vivo	Inhaled, aerosolized BIO-11006 acetate attenuates LPS-induced neutrophil influx into the lung, activation of NF-κB, and expression of the proinflammatory cytokines, KC and TNF-α, and thus reverses the development of lung injury in mice

instilled intratracheally with LPS^[1].

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

REFERENCES

[1]. Yin Q, et al. An Inhaled Inhibitor of Myristoylated Alanine-Rich C Kinase Substrate Reverses LPS-Induced Acute Lung Injury in Mice. Am J Respir Cell Mol Biol. 2016 Nov;55(5):617-622.

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

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