

Kukoamine B mesylate

Chemical Properties

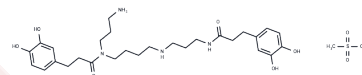
CAS No. : 1375179-86-4

Formula: C₂₉H₄₆N₄O₉S

Molecular Weight: 626.76

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Kukoamine B mesylate is a novel cationic alkaloid derived from dermatophytes with antioxidant activity, inhibits LPS internalization in Kupffer and RAW 264.7 cells, and can be used to study acute inflammation and diabetes.
Targets(IC50)	Apoptosis,MMP,Antioxidant,Akt,DNA/RNA Synthesis,PI3K,ROS Kinase
In vivo	A single dose of Kukoamine B Mesylate demonstrated good safety and tolerability in healthy subjects at dose levels ranging from 0.005 to 0.48 mg/kg. Kukoamine B Mesylate exhibits nonlinear pharmacokinetic characteristics, with a half-life of approximately 1.61 to 4.24 hours, primarily distributed in the plasma[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5955 mL	7.9775 mL	15.9551 mL
5 mM	0.3191 mL	1.5955 mL	3.191 mL
10 mM	0.1596 mL	0.7978 mL	1.5955 mL
50 mM	0.0319 mL	0.1596 mL	0.3191 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Liu H, et al. First-in-Human Safety, Tolerability, and Pharmacokinetics of Single-Dose Kukoamine B Mesylate in Healthy Subjects: A Randomized, Double-Blind, Placebo-Controlled Phase I Study. *Infect Dis Ther.* 2024 Feb;13(2): 361-371.

Wang Z, et al. Development and validation of a rapid and sensitive UPLC-MS/MS method for quantification of kukoamine B in human plasma: Application to a clinical pharmacokinetic study. *J Pharm Biomed Anal.* 2017 Jan 5; 132:1-6.

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