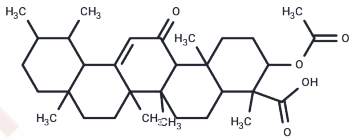
Data Sheet (Cat.No.T5S1569)

TargetMol

AKBA

Chemical Properties



CAS No. : 67416-61-9

Formula: C32H48O5

Molecular Weight: 512.72

Storage: Store at low temperature
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	AKBA (3-O-Acetyl-11-keto-beta-boswellic acid), a natural component from frankincense, is a novel activator of Nrf2.
Targets(IC50)	Reactive Oxygen Species,HIF/HIF Prolyl-Hydroxylase,Endogenous Metabolite,ROS

Solubility Information

Solubility	DMSO: 13.89 mg/mL (27.09 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9504 mL	9.7519 mL	19.5038 mL
5 mM	0.3901 mL	1.9504 mL	3.9008 mL
10 mM	0.195 mL	0.9752 mL	1.9504 mL
50 mM	0.039 mL	0.195 mL	0.3901 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

Lalithakumari K , Krishnaraju A V , Sengupta K , et al. Safety and Toxicological Evaluation of a Novel, Standardized 3-O-Acetyl-11-keto-beta-Boswellic Acid (AKBA)-Enriched Boswellia serrata Extract (5-Loxin(R))[J]. Toxicology mechanisms and methods, 2006, 16(4):199-226.

Aldandan A A, El-Kenawy M H, Al-Sharif A A, et al.Boswellic acid as a potential adjunct for bone healing after endodontic surgery: In vitro study.Saudi Endodontic Journal.2024, 14(2): 224-235.

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