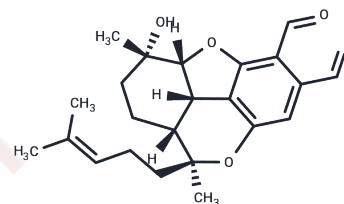


Bisabosqual A

Chemical Properties

CAS No. :	180027-46-7
Formula:	C ₂₃ H ₂₈ O ₅
Molecular Weight:	384.47
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	Bisabosqual A is a potent asparagine synthetase (ASNS) inhibitor with an IC ₅₀ of 10.7 μM, capable of covalently modifying the K556 site of the ASNS protein. It induces oxidative stress and apoptosis, while inhibiting autophagy, cell migration, and epithelial-mesenchymal transition (EMT), thereby slowing cancer cell development [1].
Targets(IC50)	Apoptosis, Autophagy
In vitro	Bisabosqual A inhibits the proliferation and migration of human non-small cell lung cancer A549 cells [1]. It induces a negative feedback pathway involving GCN2-eIF2α-ATF4, PI3K-AKT-mTORC1, and RAF-MEK-ERK axes. However, the combined effect of Bisabosqual A and rapamycin/torin-1 overcomes potential resistance triggered by the mTOR pathway [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.601 mL	13.0049 mL	26.0098 mL
5 mM	0.5202 mL	2.601 mL	5.202 mL
10 mM	0.2601 mL	1.3005 mL	2.601 mL
50 mM	0.052 mL	0.2601 mL	0.5202 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481