

BDA-366

Chemical Properties

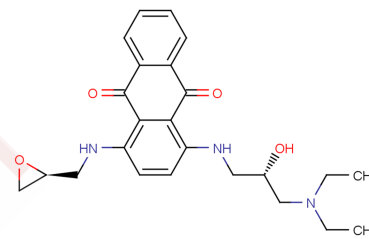
CAS No. : 1909226-00-1

Formula: C₂₄H₂₉N₃O₄

Molecular Weight: 423.5

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	BDA-366, a potent Bcl2 antagonist, selectively binds the Bcl2-BH4 domain with high affinity ($K_i = 3.3$ nM), inducing a conformational change that nullifies its antiapoptotic function, thereby transforming it into a pro-apoptotic entity. This compound effectively suppresses lung cancer cell growth[1].
Targets(IC50)	Bcl-2 Family
In vitro	NSC 228155 promotes transactivation of several RTKs, including ErbB2 and ErbB3, Insulin R and IGF-1 R receptors in the cells. It stimulates dimerization of sEGFR domain II[1]. NSC 228155 can rapidly move across cell membranes and disperse within both cytoplasmic and nuclear compartments. It rapidly generates hydrogen peroxide within cells[2]. NSC 228155 is also a potent inhibitor of KIX-KID interaction($IC_{50} = 0.36$ μ M), but it is not particularly selective against CREB-mediated gene transcription in HEK 293T cells[3].

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 5 mg/mL (11.81 mM),Sonication is recommended. DMSO: 78 mg/mL (184.18 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (7.79 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3613 mL	11.8064 mL	23.6128 mL
5 mM	0.4723 mL	2.3613 mL	4.7226 mL
10 mM	0.2361 mL	1.1806 mL	2.3613 mL
50 mM	0.0472 mL	0.2361 mL	0.4723 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

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