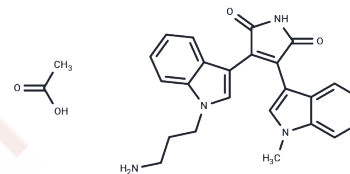


Bisindolylmaleimide VIII acetate

Chemical Properties

CAS No. :	138516-31-1
Formula:	C ₂₆ H ₂₆ N ₄ O ₄
Molecular Weight:	458.51
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	Bisindolylmaleimide VIII acetate (Ro 31-7549 acetate) is a potent and selective PKC inhibitor (IC ₅₀ : 158 nM for rat brain PKC) with IC ₅₀ values of 53, 195, 163, 213, and 175 nM for PKC- α , PKC- β I, PKC- β II, PKC- γ , and PKC- ϵ , respectively.
Targets(IC ₅₀)	Apoptosis,PKC
In vitro	Bisindolylmaleimide VIII acetate facilitates Fas-mediated apoptosis and inhibits T cell-mediated autoimmune diseases. Bisindolylmaleimide VIII acetate (5 μ M; 8, 12 hours) dramatically increases TRA-8-induced cell death in time-dependent and TRA-8 dose-dependent manners. Bisindolylmaleimide VIII acetate (5 μ M; 6 hours) significantly decreases procaspase-8 at 4 h and completely disappears at 6 h after the combined treatment with TRA-8 [2].
In vivo	Bisindolylmaleimide VIII acetate (100 μ g; i.p.; every other day for three doses) results in nearly complete tumor regression combined to TRA-8. The alone treatment with Bisindolylmaleimide VIII acetate does not induce significant tumor regression [2].

Solubility Information

Solubility	DMSO: 150 mg/mL (327.15 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: 2 mg/mL (4.36 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	2.181 mL	10.9049 mL	21.8098 mL
5 mM	0.4362 mL	2.181 mL	4.362 mL
10 mM	0.2181 mL	1.0905 mL	2.181 mL
50 mM	0.0436 mL	0.2181 mL	0.4362 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

Wilkinson SE, et al. Isoenzyme specificity of bisindolylmaleimides, selective inhibitors of protein kinase C. *Biochem J.* 1993 Sep 1;294 (Pt 2):335-7.

Ohtsuka T, et al. Bisindolylmaleimide VIII enhances DR5-mediated apoptosis through the MKK4/JNK/p38 kinase and the mitochondrial pathways. *J Biol Chem.* 2002 Aug 9;277(32):29294-303.

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