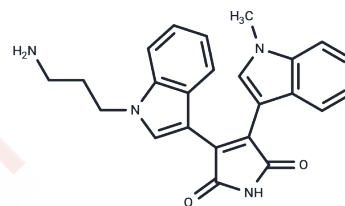


## Bisindolylmaleimide VIII

## Chemical Properties

CAS No. :	125313-65-7
Formula:	C <sub>24</sub> H <sub>22</sub> N <sub>4</sub> O <sub>2</sub>
Molecular Weight:	398.46
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 (Ro-31-7549) is a selective and potent protein kinase C (PKC) inhibitor with good inhibition of PKC- $\alpha$ , PKC- $\beta$ I, PKC- $\beta$ II, PKC- $\gamma$ , and PKC- $\epsilon$ . Bisindolylmaleimide VIII inhibits T cell-mediated autoimmune diseases and enhances Fas-mediated apoptosis through a protein kinase C-independent mechanism.
Targets(IC50)	Apoptosis,PKC
In vitro	Ro-31-7549 (5 $\mu$ M; 8, 12h; 1321N1 cells) significantly increases TRA-8-induced cell death in a time- and dose-dependent manner.[2] After combined treatment with Ro-31-7549 (5 $\mu$ M; 6h; 1321N1 cells) and TRA-8, procaspase-8 was significantly reduced at 4 h and completely disappeared at 6h.[2]
In vivo	Ro-31-7549 (100 $\mu$ g; i.p.; every other day for three doses; 6-8-week-old female NOD/SCID mice) combined with toTRA-8, resulted in nearly complete tumor regression. Bisindolylmaleimide VIII alone did not result in significant tumor regression.[2]

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5097 mL	12.5483 mL	25.0966 mL
5 mM	0.5019 mL	2.5097 mL	5.0193 mL
10 mM	0.251 mL	1.2548 mL	2.5097 mL
50 mM	0.0502 mL	0.251 mL	0.5019 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)(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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