

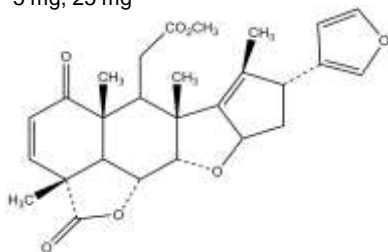
Nimbolide

ALTERNATE NAME: (4 α ,5 α ,6 α ,7 α ,15 β ,17 α)-7,15:21,23-Diepoxy-6-hydroxy-4,8-dimethyl-1-oxo-18,24-dinor-11,12-secochola-2,13,20,22-tetraene-4,11-dicarboxylic Acid γ -lactone Methyl Ester; CCRIS 5723, NSC-309909

CATALOG #: 1891-5, 25

AMOUNT: 5 mg, 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₇H₃₀O₇

MOLECULAR WEIGHT: 466.52

CAS NUMBER: 25990-37-8

APPEARANCE: Off-white solid

SOLUBILITY: DMSO (50 mM)

PURITY: \geq 98% by TLC

STORAGE: Store at -20 °C

DESCRIPTION: A terpenoid lactone derived from *Azadirachta indica* (Neem tree) that displays a variety of biological activities including anti-malarial and anticancer activity. Recently it has also been shown that nimbolide sensitizes colon cancer cells to TRAIL-induced apoptosis through three distinct mechanisms: reactive oxygen species and ERK-mediated up-regulation of DR5 and DR4, downregulation of cell survival proteins, and up-regulation of pro-apoptotic proteins p53 and Bax.

REFERENCE: Gupta, S.C., *et al.* (2011). *J. Biol. Chem.*, **286**, 1134-1146.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

FOR RESEARCH USE ONLY! Not to be used on humans.

RELATED PRODUCTS:

- Betulinic Acid (**Cat. No. 1552-25**)
- Bexarotene (**Cat. No. 1575-5, 50**)
- Capecitabine (Cat. No. 1741-100, 1000)
- Carboplatin (**Cat. No. 1553-100**)
- Cisplatin (**Cat. No. 1550-100,1000**)
- Daunorubicin.HCl (**1524-10,50,500**)
- Doxorubicin HCl (**Cat. No. 1527-5**)
- Fludarabine Phosphate (**Cat. No. 1763-10, 50**)
- Gemcitabine Hydrochloride (**Cat. No. 1759-25, 100**)
- Genistein (**Cat. No. 1533-10**)
- Mitoxantrone (**Cat. No. 1885-50, 250**)
- Nedaplatin (**Cat. No. 1576-5**)
- Oxaliplatin (**Cat. No. 1577-25**)
- Paclitaxel (**Cat. No. 1567-25**)
- Tamoxifen Citrate (**Cat. No. 1551-1000**)