

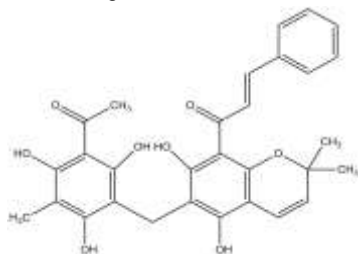
Rottlerin

ALTERNATE NAME: 3'-[(8-Cinnamoyl-5,7-dihydroxy-2,2-dimethyl-2H-1-benzopyran-6-yl)methyl]-2',4',6'-trihydroxy-5'-methylacetophenone; Mallotoxin

CATALOG NO.: 1827-10

AMOUNT: 10 mg

STRUCTURE:



MOLECULAR FORMULA: C₃₀H₂₈O₈

MOLECULAR WEIGHT: 516.55

CAS NUMBER: 82-08-6

APPEARANCE: Orange to brown solid

SOLUBILITY: DMSO (30 mg/ml) or Ethanol (1 mg/ml)

PURITY: ≥98% by HPLC

STORAGE: Store at -20 °C

DESCRIPTION: Originally reported as an inhibitor of Protein Kinase C isoforms with selectivity for PKCδ. However, more recent studies have shown Rottlerin did not block PKCδ activity but did block other kinase and non-kinase proteins *in vitro* and activated multiple Ca²⁺-sensitive K⁺ channels with high potency. It uncouples mitochondria and affects mitochondrial production of reactive oxygen species (ROS). Also induces autophagy through inhibition of mTORC1.

REFERENCE: Song, K.S., *et al.* (2008). *Autophagy* **4**, 650-658.

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:

- Amiodarone Hydrochloride (Cat. No. 1828-100, 500)
- Bafilomycin A1 (Cat. No. 1829-50, 250)
- Chloroquine Diphosphate (Cat. No. 1825-100, 500)
- Leupeptin Hemisulfate (Cat. No. 1648-25, 50,100)
- LY 294002 (Cat. No. 1667-5, 25)
- EZSolution™ LY 294002 (Cat. No. 1747-5)
- Niclosamide (Cat. No. 1826-100, 500)
- Pepstatin A (Cat. No. 1732-25, 100)
- Rapamycin (Cat. No. 1568-5, 50)
- EZSolution™ Rapamycin (Cat. No. 1746-5)
- Wortmannin (Cat. No. 1670-1)