Rottlerin

**ALTERNATE NAME:** 3'-(8-Cinnamoyl-5,7-dihydroxy-2,2-di-methyl-2H-1-benzopyran-6-yl)methyl]-2',4',6'-trihydr-oxy-5'-methylacetophenone; Mallotoxin

**CATALOG NO.:** 1827-10

**AMOUNT:** 10 mg

**STRUCTURE:**

![Rottlerin Structure](image)

**MOLECULAR FORMULA:** C_{30}H_{28}O_{8}

**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 Ca^{2+}-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.


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

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**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. 1646-25, 50,100)
- LY 294002 (Cat. No. 1667-5, 25)
- EYSolution™ 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)
- EYSolution™ Rapamycin (Cat. No. 1746-5)
- Wortmannin (Cat. No. 1670-1)