Product Name: Rottlerin
Catalog No.: 1610
Batch No.: 3

CAS Number: 82-08-6
EC Number: 201-395-4

IUPAC Name: 3’-[(8-Cinnamoyl-5,7-dihydroxy-2,2-dimethyl-2H-1-benzopyran-6-yl)methyl]-2’,4’,6’-trihydroxy-5’-methylacetophenone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_{30}H_{28}O_8 \)
Batch Molecular Weight: 516.55
Physical Appearance: Brown solid
Solubility: ethanol to 2 mM with gentle warming
DMSO to 20 mM
Storage: Store at +4°C

2. ANALYTICAL DATA

Melting Point: Between 200 - 205°C
HPLC: Shows 94.5% purity
Mass Spectrum: Consistent with structure
**Product Information**

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**Catalog No.:** 1610  
**Batch No.:** 3  
**CAS Number:** 82-08-6  
**EC Number:** 201-395-4

**IUPAC Name:** 3’-[(8-Cinnamoyl-5,7-dihydroxy-2,2-dimethyl-2H-1-benzopyran-6-yl)methyl]-2’,4’,6’-trihydroxy-5’-methylacetophenone

**Description:**  
Originally reported to inhibit PKC isoforms. Also reported to inhibit CAM kinase III. However, recently shown to inhibit a wide range of protein kinases, and most potently to inhibit PRAK and MAPKAP-K2 (IC50 values are 1.9 and 5 μM respectively). Also shown to act as a direct mitochondrial uncoupler. Thought to stimulate autophagy by targeting upstream mTORC1 control pathways.

**Physical and Chemical Properties:**  
**Batch Molecular Formula:** C30H26O8  
**Batch Molecular Weight:** 516.55  
**Physical Appearance:** Brown solid

**Batch Molecular Structure:**

![Molecular Structure](image)

**Storage:** Store at +4°C

**Solubility & Usage Info:**  
ethanol to 2 mM with gentle warming  
DMSO to 20 mM

**Stability and Solubility Advice:**  
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).  
Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:  
SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.  
SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**