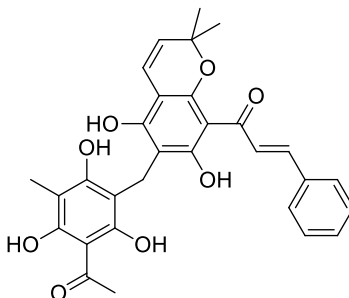


Catalog # 10-1341

Rottlerin

CAS# 82-08-6

3'-[(8-Cinnamoyl-5,7-dihydroxy-2,2-dimethyl-2H-1-benzopyran-6-yl)methyl]-2',4',6'-trihydroxy-5'-methylacetophenone
Lot # X101151



Reported to inhibit PKC δ selectively however this result has been called into question¹. Displays neuroprotective effects². Induces autophagy³. Cell permeable.

- 1) Davies *et al.* (2000), *Specificity and mechanism of action of some commonly used protein kinase inhibitors*; Biochem. J., **351** 95
- 2) Zhang *et al.* (2007), *Neuroprotective effect of protein kinase C delta inhibitor rottlerin in cell culture and animal models of Parkinson's disease*; J. Pharmacol. Exp. Ther., **322** 913
- 3) Balgi *et al.* (2009), *Screen for chemical modulators of autophagy reveals novel therapeutic inhibitors of mTORC1 signaling*; PLoS One, **4** e7124

PHYSICAL DATA

Molecular Weight:	516.55
Molecular Formula:	C ₃₀ H ₂₈ O ₈
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml)
Physical Description:	Brown solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.