Rottlerin

PKCδ inhibitor

Mitochondrial uncoupler that depolarizes the mitochondrial membrane potential, reduces cellular ATP levels, activates 5'-AMP-activated protein kinase (AMPK) and affects mitochondrial production of reactive oxygen species (ROS). Potent activator of multiple Ca^{2+}-sensitive K^+ channels. Blocks several kinases and non-kinase proteins *in vitro*. Has been widely-used as a selective inhibitor of protein kinase Cδ (PKCδ) (IC_{50}=3-6μM). Although there is extensive published documentation to support the use of rottlerin as a selective PKCδ inhibitor, there has been some controversy in the literature over this claim. Some of this controversy may arise from the fact that rottlerin is a promiscuous inhibitor and therefore may not always display the same properties as would be expected from a classical 1:1 inhibitor. However, there are studies indicate that rottlerin has no direct effect on PKCδ and that it should not be used to determine the involvement of PKCδ in biological processes. Induces autophagy by inhibition of mTORC1 signaling.

Citations: 11 View Online »

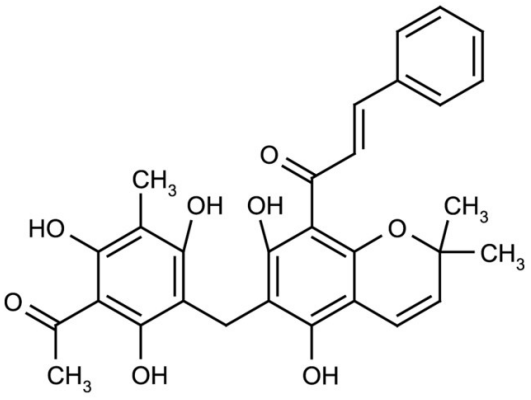
Ordering Information

Order Online »

ALX-350-075-M010	10mg

Manuals, SDS & CofA

View Online »


O
CH3
OH
OH
CH3
HO
O
CH3
O
OH
CH3
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OH

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Long Term Storage	Ambient
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Mallotoxin
Appearance	Orange to brown solid.
CAS	82-08-6
Couple Target	PKC
Couple Type	Inhibitor
Formula	$C_{30}H_{28}O_8$
MI	**14:** 8272
MW	516.5
Purity	≥98% (HPLC)
RTECS	AM6913800
Solubility	Soluble in DMSO (up to 50mg/ml).
Source	Isolated from *Mallotus philippinensis*.

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