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DATASHEET

Daphnetin

Product overview

Name	Daphnetin
Cat No	HB0229
Biological action	Inhibitor
Purity	>97%
Description	Protein kinase inhibitor

Images



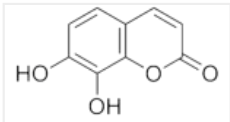
Biological Data

Biological description	Protein kinase inhibitor (IC ₅₀ values are 7.67, 9.33 and 25.01 μ M at EGFR, PKA and PKC respectively). Cell-permeable, coumarin derivative. Shows antioxidant and antimalarial actions.
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO or EtOH
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	7,8-Dihydroxycoumarin
Molecular Weight	178.14
Chemical structure	
Molecular Formula	C ₉ H ₆ O ₄
CAS Number	486-35-1
PubChem identifier	5280569
SMILES	<chem>C1=CC(=C(C2=C1C=CC(=O)O2)O)O</chem>
InChi	InChI=1S/C9H6O4/c10-6-3-1-5-2-4-7(11)13-9(5)8(6)12/h1-4,10,12H

Chemical name	7,8-Dihydroxycoumarin
InChiKey	ATEFPOUAMCWAQS-UHFFFAOYSA-N
MDL number	MFCD00016977

References

Daphnetin, one of coumarin derivatives, is a protein kinase inhibitor.

Yang EB *et al* (1999) Biochem Biophys Res Commun 260(3)

PubMedID [10403826](#)

Daphnetin, a natural coumarin derivative, provides the neuroprotection against glutamate-induced toxicity in HT22 cells and ischemic brain injury.

Du G *et al* (2014) Neurochem Res 39(2)

PubMedID [24343531](#)

Daphnetin: a novel antimalarial agent with in vitro and in vivo activity.

Yang YZ *et al* (1992) Am J Trop Med Hyg 46(1)

PubMedID [1311154](#)
