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DATASHEET

Apigenin

Product overview

Name	Apigenin
Cat No	HB0117
Biological action	Inhibitor
Purity	>98%
Description	PKC inhibitor

Biological Data

Biological description	Protein kinase C (PKC) inhibitor that competes with ATP ($IC_{50} = 30 \mu M$ for protein kinase CK2). Promotes cell cycle arrest and apoptosis. Displays antioxidant, anticarcinogenic and anti-inflammatory properties. A naturally occurring plant flavone.
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Solubility & Handling

Solubility overview	Soluble in DMSO (27mg/ml) or KOH (50mg/ml, 1M KOH)
Storage instructions	+4 °C
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.
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	4',5,7-Trihydroxyflavone
Molecular Weight	270.3
Chemical structure	The chemical structure of Apigenin is shown, consisting of a flavone skeleton with hydroxyl groups at the 5, 7, and 4' positions.
Molecular Formula	$C_{15}H_{10}O_5$
CAS Number	520-36-5
PubChem identifier	5280443
SMILES	<chem>C1=CC(=CC=C1C2=CC(=O)C3=C(C=C(C=C3O2)O)O)O</chem>
InChiKey	KZNIHFPLKGYRTM-UHFFFAOYSA-N

References

Apigenin and cancer chemoprevention: progress, potential and promise (review).

Patel D *et al* (2007) Int J Oncol 30(1)

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Molecular targets for apigenin-induced cell cycle arrest and apoptosis in prostate cancer cell xenograft.

Shukla S *et al* (2006) Mol Cancer Ther 5(4)

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Suppression of protein kinase C and nuclear oncogene expression as possible molecular mechanisms of cancer chemoprevention by apigenin and curcumin.

Lin JK *et al* (1997) J Cell Biochem Suppl 28-29

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Inhibition of protein kinase CK2 prevents the progression of glomerulonephritis.

Yamada M *et al* (2005) Proc Natl Acad Sci U S A 102(21)

PubMedID [15897466](#)
