

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@m2stage.hellobio.com



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

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (27mg/ml) or KOH (50mg/ml, 1M KOH)
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 within a rectangular box. It consists of a central chromone ring system (a benzene ring fused to a pyrone ring). There are three hydroxyl groups attached to the structure: one at the 5-position of the pyrone ring, and two at the 7-position of the benzene ring (one at the para position and one at the ortho position relative to the pyrone ring fusion).
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	KZNIFHPLKGYRTM-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](#)
