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DATASHEET

Cantharidic Acid

Product overview

Name	Cantharidic Acid
Cat No	HB0167
Biological action	Inhibitor
Purity	>98%
Description	Potent, selective PP2A inhibitor

Biological Data

Biological description	Potent and selective protein phosphatase 2A (PP2A) inhibitor ($IC_{50} = 53$ nM). Selective for PP2A over PP1 ($IC_{50} = 562$ nM). Potentiates cyclic-AMP Response element binding (CREB) signalling ($EC_{50} = 0.45$ μ M). Increases transduction of adenovirus vectors. Shows apoptotic actions.
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (100 mM) and in ethanol (25 mM, gentle warming)
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	2,3-Dimethyl-7-oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid
Molecular Weight	214.21
Molecular Formula	$C_{10}H_{14}O_5$
CAS Number	28874-45-5
PubChem identifier	121475
SMILES	<chem>C[C@]1([C@H]2CC[C@@H]([C@]1(C)C(=O)O)O2)C(=O)O</chem>
InChi	InChI=1S/C10H14O5/c1-9(7(11)12)5-3-4-6(15-5)10(9,2)8(13)14/h5-6H,3-4H2,1-2H3,(H,11,12)(H,13,14)/t5-,6+,9+,10-
InChiKey	NMTNUQBORQLRK-XCVPVQRUSA-N

References

Identification of compounds that potentiate CREB signaling as possible enhancers of long-term memory.

Xia M *et al* (2009) Proc Natl Acad Sci U S A 106(7)

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Suppression of protein phosphatase 2A activity enhances Ad5/F35 adenovirus transduction efficiency in normal human B lymphocytes and in Raji cells.

Cayer MP *et al* (2012) J Immunol Methods 376(1-2)

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Structure activity analysis of the pro-apoptotic, antitumor effect of nitrostyrene adducts and related compounds.

Kaap S *et al* (2003) *Biochem Pharmacol* 65(4)

PubMedID

[12566088](#)
