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DATASHEET

Cryptotanshinone

Product overview

Name	Cryptotanshinone
Cat No	HB1434
Alternative names	CRY; CPT
Biological action	Inhibitor
Purity	>98%
Description	STAT3 inhibitor

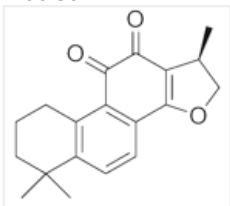
Biological Data

Biological description	STAT3 inhibitor ($IC_{50} = 4.6 \mu M$). Also inhibits human acetylcholinesterase (AChE), butyrylcholinesterase (BuChE) and SHP2 (IC_{50} values are 4.09, 6.38 and 22.5 μM respectively). Shows anti-Alzheimer's disease, anticancer, antidiabetic and antiobesity actions.
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (10mM)
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	1,2,6,7,8,9-Hexahydro-1,6,6-trimethyl[1,2- <i>b</i>]furan-10,11-dione
Molecular Weight	296.36
Chemical structure	
Molecular Formula	$C_{19}H_{20}O_3$
CAS Number	35825-57-1
PubChem identifier	160254
SMILES	<chem>O=C(C1=C(C4=C3[C@@H](C)CO4)C=CC2=C1CCCC(C)2C)C3=O</chem>
InChiKey	GVKKJJJOMQCNPG-BJTQLQIEISA-N

References

Antidiabetes and antiobesity effect of cryptotanshinone via activation of AMP-activated protein kinase.

Kim EJ *et al* (2007) Mol Pharmacol 72(1)

PubMedID [17429005](#)

Cryptotanshinone inhibits constitutive signal transducer and activator of transcription 3 function through blocking the dimerization in DU145 prostate cancer cells.

Shin DS *et al* (2009) Cancer Res 69(1)

PubMedID [19118003](#)

Inhibitory effect of cryptotanshinone on angiogenesis and Wnt/ β -catenin signaling pathway in human umbilical vein endothelial cells.

Chen Q *et al* (2014) Chin J Integr Med 20(10)

PubMedID [24740553](#)

Cryptotanshinone, an acetylcholinesterase inhibitor from *Salvia miltiorrhiza*, ameliorates scopolamine-induced amnesia in Morris water maze task.

Wong KK *et al* (2010) Planta Med 76(3)

PubMedID [19774505](#)
