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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

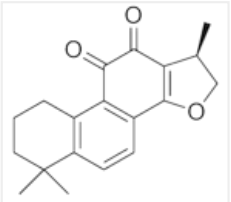
Biological Data

Biological description	STAT3 inhibitor (IC_{50} = 4.6 µM). 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.

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-*b*]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	O=C(C1=C(C4=C3[C@@H](C)CO4)C=CC2=C1CCCC(C)2C)C3=O
InChiKey	GVKKJJOMQCNPGB-JTQLQIEISA-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