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## DATASHEET

Cryptotanshinone

### Product overview

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

### Biological Data

<b>Biological description</b>	STAT3 inhibitor (IC <sub>50</sub> = 4.6 μM). Also inhibits human acetylcholinesterase (AChE), butyrylcholinesterase (BuChE) and SHP2 (IC <sub>50</sub> 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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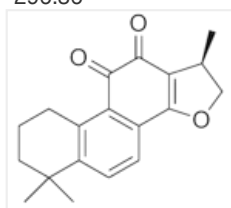
### Solubility & Handling

<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	Soluble in DMSO (10mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	1,2,6,7,8,9-Hexahydro-1,6,6-trimethyl[1,2- <i>b</i> ]furan-10,11-dione
<b>Molecular Weight</b>	296.36

**Chemical structure**



<b>Molecular Formula</b>	C <sub>19</sub> H <sub>20</sub> O <sub>3</sub>
<b>CAS Number</b>	35825-57-1
<b>PubChem identifier</b>	160254
<b>SMILES</b>	O=C(C1=C(C4=C3[C@@H](C)CO4)C=CC2=C1CCCC(C)2C)C3=O
<b>InChiKey</b>	GVKKJJJOMQCNPGB-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](https://pubmed.ncbi.nlm.nih.gov/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/ $\beta$ -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](#)

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