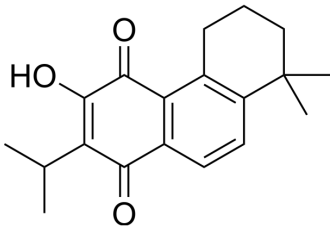
Deoxyneocryptotanshinone

Cat. No.:	HY-N3734
CAS No.:	27468-20-8
Molecular Formula:	$C_{19}H_{22}O_3$
Molecular Weight:	298.38
Target:	Beta-secretase; Phosphatase
Pathway:	Neuronal Signaling; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Deoxyneocryptotanshinone, a natural tanshinone, is a high affinity BACE1 (Beta-secretase) inhibitor with an IC_{50} value of 11.53 μM. Deoxyneocryptotanshinone shows a promising dose-dependent inhibition of protein tyrosine phosphatase 1B (PTP1B) with an IC_{50} value of 133.5 μM. Deoxyneocryptotanshinone can be used for Alzheimer's disease research[1][2].
IC_{50} & Target	IC50: 11.53 μM (BACE1)[1] and 133.5 μM (PTP1B)[2]

REFERENCES

[1]. Ting Yu, et al. Computational insights into β-site amyloid precursor protein enzyme 1 (BACE1) inhibition by tanshinones and salvianolic acids from Salvia miltiorrhiza via molecular docking simulations. Comput Biol Chem. 2018 Jun;74:273-285.

[2]. Da Hye Kim, et al. Characterization of the inhibitory activity of natural tanshinones from Salvia miltiorrhiza roots on protein tyrosine phosphatase 1B. Chem Biol Interact. 2017 Dec 25;278:65-73.

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