

Danshenxinkun A

Chemical Properties

CAS No. : 65907-75-7

Formula: C₁₈H₁₆O₄

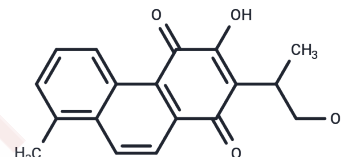
Molecular Weight: 296.32

Storage:

Keep away from moisture, Keep away from direct sunlight, Store at low temperature

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Danshenxinkun A is a natural product isolated from <i>Salvia miltiorrhiza</i> (Tanshen) exhibiting neuraminidase inhibitory activity with an IC ₅₀ of 39.5 mg/L.
Targets(IC ₅₀)	Others, Cytochromes P450
In vitro	As a result, we identified 870 single peaks from total ion current and accurately identified 19 compounds from Danshen in this study. Further analysis showed that these compounds had three types of accumulation patterns and contents of most compounds had significant differences in samples from different planting areas. Network pharmacological analysis showed that Tanshinone IIA, Tanshinone IIB, Dehydromiltirone, Cryptotanshinone, Danshenxinkun A, Danshenxinkun B and Neocryptotanshinone might intervene thrombotic diseases by adjusting the targets mainly involved in pathways of endocrine system, signal transduction, signaling molecules and interaction, cell motility, environmental adaptation and nervous system.

Solubility Information

Solubility	DMSO: ≥ 80 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3747 mL	16.8737 mL	33.7473 mL
5 mM	0.6749 mL	3.3747 mL	6.7495 mL
10 mM	0.3375 mL	1.6874 mL	3.3747 mL
50 mM	0.0675 mL	0.3375 mL	0.6749 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Ge, P., et al. Rapidly identify compounds from danshen by using ultra-high-performance liquid chromatography coupled with linear ion trap-Orbitrap mass spectrometer and predict its mechanisms of intervening thrombotic diseases. *Journal of Liquid Chromatography & Related Technologies*, 2019,42:115-121.

Dat NT, et al. Abietane diterpenes from *Salvia miltiorrhiza* inhibit the activation of hypoxia-inducible factor-1. *J Nat Prod*. 2007 Jul;70(7):1093-7.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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