

## Danshenxinkun B

## Chemical Properties

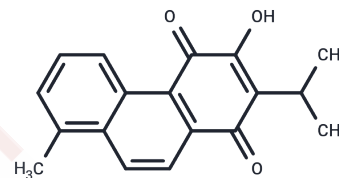
CAS No. : 65907-76-8

Formula: C<sub>18</sub>H<sub>16</sub>O<sub>3</sub>

Molecular Weight: 280.32

Storage: 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 B has antioxidant activity, it may have the potential of being used as natural antioxidants in foods and cosmetics.
Targets(IC50)	Others
In vitro	Rhizomes of tanshen ( <i>Salvia miltiorrhiza</i> Bung) were pulverized and extracted with diethyl ether. The extract was washed with 5% sodium carbonate solution, freed of solvents, and applied to a silica gel column. Seven colorful bands ranging from light yellow to dark brown were resolved and collected. After certain purification procedures, such as stepwise recrystallization and preparative TLC, seven crystalline quinone-type compounds were obtained, namely tanshinone I, dihydrotanshinone I, tanshinone IIA, tanshinone IIB, methylenetanshinquinone, cryptotanshinone, and Danshenxinkun B, all of which had color. Confirmation of the identifications was carried out by mass spectroscopy and infrared spectrometry. Measurement of the antioxidant activity in lard of these quinones was performed with two methods, the Rancimat method and the Shaal oven method in conjunction with peroxide value determination. Except for tanshinone IIA, all the quinones exhibited antioxidant activities, of which dihydrotanshinone I, tanshinone I, methylenetanshinquinone, and cryptotanshinone showed strong activities comparable to that of BHA and BHT.

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	3.5674 mL	17.8368 mL	35.6735 mL
5 mM	0.7135 mL	3.5674 mL	7.1347 mL
10 mM	0.3567 mL	1.7837 mL	3.5674 mL
50 mM	0.0713 mL	0.3567 mL	0.7135 mL

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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

Antioxidative components of tanshen (*Salvia miltiorrhiza* Bung). *J. Agr. Food Chem.*, 1990, 38(5):1194-7

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