

## Danshensu sodium

## Chemical Properties

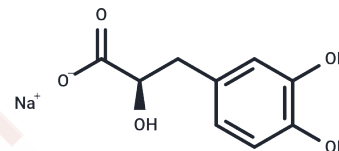
CAS No. : 81075-52-7

Formula: C<sub>9</sub>H<sub>9</sub>NaO<sub>5</sub>

Molecular Weight: 220.16

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	Danshensu sodium (Dan shen suan A) is a phenolic compound with oral bioactivity that activates Nrf2/HO-1 and inhibits the NF-κB pathway. It reduces reactive oxygen species (ROS) production, enhances antioxidant defenses, and suppresses intrinsic apoptotic pathways. Additionally, Danshensu sodium exhibits significant antiviral activity against SARS-CoV-2 with an EC <sub>50</sub> of 0.97 μM. It offers antioxidant, anti-apoptotic, and anti-inflammatory benefits for the lungs, presenting potential for research in COVID-19, cardiovascular, and cerebrovascular diseases.
Targets(IC <sub>50</sub> )	Apoptosis,NF-κB,Reactive Oxygen Species,Nrf2,SARS-CoV
In vitro	Danshensu (Dan shen suan A) sodium effectively inhibits the entry of SARS-CoV-2 S protein pseudotyped virus (SARS-CoV-2 S) into ACE2 overexpressing HEK-293T cells (IC <sub>50</sub> = 0.31 μM) and Vero-E6 cells (IC <sub>50</sub> = 4.97 μM). Within a concentration range of 0-100 μM over 24 hours, higher concentrations (50 and 100 μM) of Danshensu sodium significantly reduce the migration and invasion of FaDu and Ca9-22 cells. Additionally, Danshensu sodium decreases ERK phosphorylation and p38 phosphorylation in FaDu cells in a dose-dependent manner. Moreover, it exhibits no cytotoxic effects on human oral cancer cells over 24, 48, and 72 hours.
In vivo	Danshensu (Dan shen suan A; 25, 50, 100 mg/kg; administered orally daily for 7 consecutive days or as a single intravenous injection) sodium, when administered prior to SARS-CoV-2 S infection, can mitigate the pathological changes in mice infected with SARS-CoV-2 S in a dose-dependent manner.

### Preparing Stock Solutions

---

	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	4.5422 mL	22.7108 mL	45.4215 mL
5 mM	0.9084 mL	4.5422 mL	9.0843 mL
10 mM	0.4542 mL	2.2711 mL	4.5422 mL
50 mM	0.0908 mL	0.4542 mL	0.9084 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481