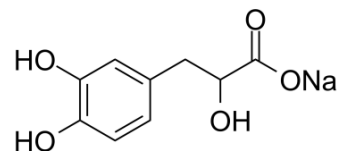


Danshensu sodium salt

Cat. No.:	HY-N0106		
CAS No.:	67920-52-9		
Molecular Formula:	C ₉ H ₉ NaO ₅		
Molecular Weight:	220.15		
Target:	Autophagy		
Pathway:	Autophagy		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (454.24 mM; Need ultrasonic)
 DMSO : 100 mg/mL (454.24 mM; Need ultrasonic)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.5424 mL	22.7118 mL	45.4236 mL
	5 mM	0.9085 mL	4.5424 mL	9.0847 mL
	10 mM	0.4542 mL	2.2712 mL	4.5424 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (11.36 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (11.36 mM); Clear solution
- Add each solvent one by one: PBS
 Solubility: 50 mg/mL (227.12 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Danshensu (sodium salt) is odium salt of danshensu from the widely used Chinese herb Danshen. It can inhibited phenylephrine- and CaCl₂-induced vasoconstriction in Ca²⁺-free medium. In vitro: Sodium danshensu showed a biphasic effects on vessel tension. While low dosage of sodium danshensu produced small contraction possibly through transient enhancement of Ca²⁺ influx, high dosage produced significant vasodilation mainly through promoting the opening of non-selective K⁺ channels and small-conductance calcium-sensitive K⁺ channels in the vascular smooth muscle cells.[1] In vivo: Danshensu did not change the expression of AGEs but partly blocked the increased expression of RAGE in the hippocampus

of diabetic mice. Danshensu could ameliorate the cognitive decline in streptozotocin-induced diabetic mice by attenuating advanced glycation end product-mediated neuroinflammation.[2]

REFERENCES

[1]. Zhang N. Biphasic effects of sodium danshensu on vessel function in isolated rat aorta. *Acta Pharmacol Sin*, 2010 Apr, 31(4):421-8.

[2]. Tian Wang et al. Danshensu ameliorates the cognitive decline in streptozotocin-induced diabetic mice by attenuating advanced glycation end product-mediated neuroinflammation. *J Neuroimmunol*, 2012 Apr, 245(1-2):79-86.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA