

Sodium Danshensu Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Sodium Danshensu

Catalog No.: CFN99163

Cas No.: 67920-52-9

Purity: > 98%

M.F: C₉H₉O₅Na

M.W: 220.16

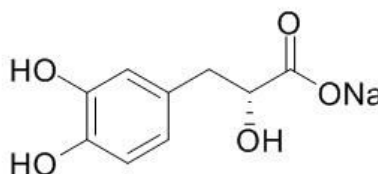
Physical Description: Powder

Synonyms: 3-(3',4'-Dihydroxyphenyl)lactic acid sodium salt;

Sodium DL-beta-(3,4-dihydroxyphenyl)lactate;

3,4-Dihydroxyphenyl- α -hydroxypropanoic acid sodium salt;

Sodium 3-(3,4-dihydroxyphenyl)lactate;Salvia natriuretic peptide.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

The root of *Salvia miltiorrhiza* Bge.

[Biological Activity or Inhibitors]

Sodium danshensu (SDSS), the sodium salt of danshensu (DSS), has the neuroprotective effect against cerebral I/R injury, and the potential mechanism might to inhibition of apoptosis through activating the PI3K/Akt signal pathway. ^[1]

Sodium danshensu has a protective effect against the genotoxicity of cigarette smoke.^[2]

Sodium danshensu shows a biphasic effects on vessel tension, while low dosage of sodium danshensu produces small contraction possibly through transient enhancement of Ca(2+) influx, high dosage produces 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.^[3]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[4]

Mobile phase: Acetonitrile- 0.5% Acetic acid H₂O=25:75 ;

Flow rate: 1.0 ml/min;

Column temperature: 35 °C;

The wave length of determination: 280 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Guo C, Yin Y, Duan J, *et al. Phytomedicine*, 2015, 22(2):283-9.

[2] Chen H J, Gan Z B, Liu X, *et al. Drugs & Clinic*, 2014, 29(1):21-6.

[3] Zhang N, Zou H, Jin L, *et al. Acta Pharmacologica Sinica*, 2010, 31(4):421-8.

[4] Li Q B , Zhang C W, Wu J P, *et al. Practical Pharmacy & Clinical Remedies*, 2014,

17(9):1170-4.

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