

Spinosin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Spinosin

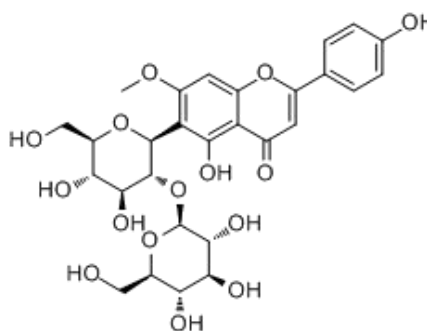
Catalog No.: CFN99600

Cas No.: 72063-39-9

Purity: >=98%

M.F: C₂₈H₃₂O₁₅

M.W: 608.55



Physical Description: Powder

Synonyms: 2-(4-Hydroxyphenyl)-5-hydroxy-7-methoxy-6-[2-O-(β -D-glucopyranosyl)- β -D-glucopyranosyl]-4H-1-benzopyran-4-one; 2"-O- β -D-Glucopyranosylswertisin; 6-(2-O- β -D-Glucopyranosyl- β -D-glucopyranosyl)-4',5-dihydroxy-7-methoxyflavone; 6-(2-O- β -D-Glucopyranosyl- β -D-glucopyranosyl)-5-hydroxy-2-(4-hydroxyphenyl)-7-methoxy-4H-1-benzopyran-4-one; Spinosin A.

[Intended Use]

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

[Source]

The seeds of *Zizyphus jujuba*.

[Biological Activity or Inhibitors]

Spinosin, a C-glycoside flavonoid from semen *Ziziphi* Spinozae, potentiates pentobarbital-induced sleep via the serotonergic system.^[1]

Spinosin has inhibitory effect on 8-OH-DPAT-induced hypothermia and has potentiating effect on pentobarbital-induced loss of righting reflex (LORR) in mice, presynaptic 5-HT(1A) autoreceptor mechanisms may be involved in the effects.^[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[3]

Mobile phase: Acetonitrile-H₂O-Acetic acid =23:77:1 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 334 nm.

[Storage]

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

[References]

[1] Wang L E, Bai Y J, Shi X R, *et al. Pharmacol. Biochem. Be.*, 2008, 90(3):399-403.

[2] Wang L E, Zhang X Q, Yin Y Q, *et al. J. Pharm. Pharmacol.*, 2012, 64(2):277-82.

[3] Li Y, Dai Y Y, Li Y, *et al. Yakugaku Zasshi.* , 2007, 127(8):1231-5.

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