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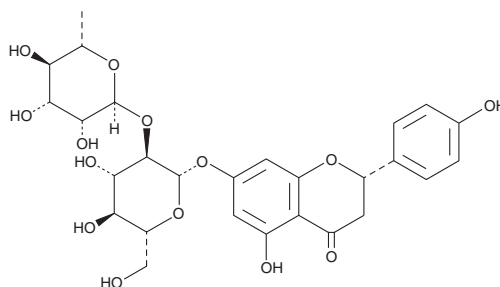
Product Information



Naringin

Item No. 17923

CAS Registry No.: 10236-47-2
Formal Name: (2S)-7-[[2-O-(6-deoxy- α -L-mannopyranosyl)- β -D-glucopyranosyl]oxy]-2,3-dihydro-5-hydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one
Synonym: NSC 5548
MF: C₂₇H₃₂O₁₄
FW: 580.5
Purity: $\geq 95\%$
Stability: ≥ 2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max} : 214, 226, 283, 329 nm



Laboratory Procedures

For long term storage, we suggest that naringin be stored as supplied at -20°C . It should be stable for at least two years.

Naringin is supplied as a crystalline solid. A stock solution may be made by dissolving the naringin in the solvent of choice. Naringin is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of naringin in these solvents is approximately 1, 10, and 20 mg/ml, respectively.

Naringin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, naringin should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Naringin has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Naringenin (Item No. 14173) is a citrus-derived flavonoid that inhibits cytochrome P450 (CYP) 3A4 activity in human liver microsomes ($\text{IC}_{50}\text{s} = 139\text{--}188\text{ }\mu\text{M}$).^{1,2} Naringin is a natural flavanone glycoside formed from naringenin and neohesperidose. It undergoes extensive metabolism in the liver, giving rise to naringenin and other bioactive metabolites that have anti-oxidant, anti-inflammatory, and anti-apoptotic effects.³ Naringin is a weak inhibitor of CYP3A4, providing 14% inhibition at 200 μM .² It suppresses apoptosis in neurons and increases the expression of neurotrophic factor in dopaminergic neurons, providing neuroprotection.⁴

References

1. Fuhr, U., Klittich, K., and Staib, A.H. Inhibitory effect of grapefruit juice and its bitter principal, naringenin, on CYP1A2 dependent metabolism of caffeine in man. *Br. J. Clin. Pharmacol.* **35**(4), 431-436 (1993).
2. Ho, P.-C. and Saville, D.J. Inhibition of human CYP3A4 activity by grapefruit flavonoids, furanocoumarins and related compounds. *J. Pharm. Pharm. Sci.* **4**(3), 217-227 (2001).
3. Bharti, S., Rani, N., Krishnamurthy, B., *et al.* Preclinical evidence for the pharmacological actions of naringin: A review. *Planta. Med.* **80**, 437-451 (2014).
4. Jung, U.J., Leem, E., and Kim, S.R. Naringin: A protector of the nigrostriatal dopaminergic projection. *Exp. Neurobiol.* **23**(2), 124-129 (2014).

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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