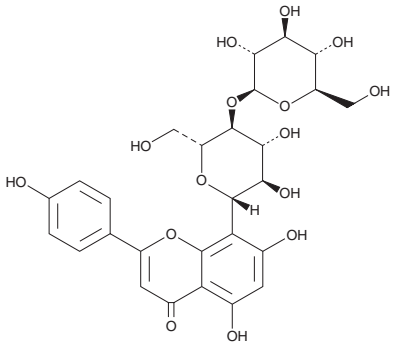
PRODUCT INFORMATION

Vitexin-4''-O-glucoside

Item No. 34923

CAS Registry No.:	178468-00-3
Formal Name:	8-(4-O-β-D-glucopyranosyl-β-D-glucopyranosyl)-5,7-dihydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one
MF:	$C_{27}H_{30}O_{15}$
FW:	594.5
Purity:	≥95%
UV/Vis.:	λ_{max}: 216, 271, 335 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years
Item Origin:	Plant/*Crataegi fructus*



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Vitexin-4''-O-glucoside is supplied as a solid. A stock solution may be made by dissolving the vitexin-4''-O-glucoside in the solvent of choice, which should be purged with an inert gas. Vitexin-4''-O-glucoside is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of vitexin-4''-O-glucoside in these solvents is approximately 1 mg/ml.

Vitexin-4''-O-glucoside is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, vitexin-4''-O-glucoside should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Vitexin-4''-O-glucoside has a solubility of approximately 0.50 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Vitexin-4''-O-glucoside is a flavonoid glycoside and major component of *C. pinnatifida* that has antioxidant activity.[1] It reduces tertbutyl hydroperoxide-induced DNA damage, lipid peroxidation, and cell death in ECV304 cells when used at concentrations ranging from 16 to 128 µM.

Reference

1. Li, H.-B., Ying, X.X., and Lu, J. The mechanism of vitexin-4''-O-glucoside protecting ECV-304 cells against tertbutyl hydroperoxide induced injury. *Nat. Prod. Res.* **24(18)**, 1695-1703 (2010).

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