

## Roseoside Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** Roseoside

**Catalog No.:** CFN98916

**Cas No.:** 54835-70-0

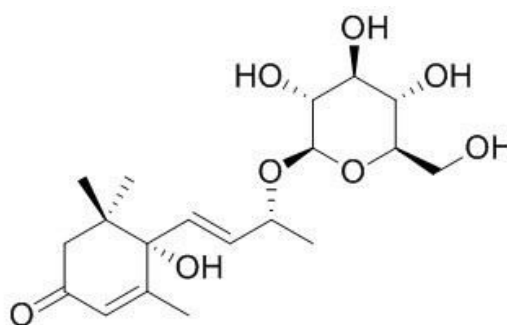
**Purity:** > 98%

**M.F:** C<sub>19</sub>H<sub>30</sub>O<sub>8</sub>

**M.W:** 386.4

**Physical Description:** Powder

**Synonyms:** 2-Cyclohexen-1-one, 4-[(1E,3R)-3-( $\beta$ -D-glucopyranosyloxy)-1-butenyl]-4-hydroxy-3,5,5-trimethyl-, (4S)-.



### [ Intended Use ]

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

### [ Source ]

The herbs of *Catharanthus roseus*.

## **[ Biological Activity or Inhibitors ]**

Roseoside (vomifoliol glucosides) exhibits inhibitory activity on leukotriene release from mouse bone marrow-derived cultured mast cells (BMCMC).<sup>[1]</sup>

(6S,9R)-Roseoside can inhibit the histamine release from rat peritoneal exudate cells induced by antigen-antibody reaction.<sup>[2]</sup>

Roseoside significantly delays carcinogenesis induced by peroxyxynitrite (initiator) and TPA (promoter), and its potency was comparable to that of a green tea polyphenol, (-)-epigallocatechin 3-O-gallate, in the same assay.<sup>[3]</sup>

Roseoside possesses strong antioxidant properties, inhibiting lipid oxidation by 86.4, at 50 microg/mL.<sup>[4]</sup>

## **[ Solvent ]**

Pyridine, DMSO, Methanol, Ethanol, Hot water, etc.

## **[ HPLC Method ]<sup>[5]</sup>**

Mobile phase: Methanol-Chloroform, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 236 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Yajima A, Oono Y, Nakagawa R, *et al. Bioorg. Med. Chem.*, 2009, 17(1):189-94.

[2] Yoshikawa M, Shimada H, Saka M, *et al. Chem. Pharm. Bull.*, 1997, 45(3):464-9.

[3] Ito H, Kobayashi E, Li S H, *et al. J.Agr. Food Chem.*, 2002, 50(8):2400-3.

[4] Zhang Y, Cichewicz R H, Nair M G. *Life Sci.*, 2004, 75(6):753-63.

[5] Tang B Q, Yang T T, Yang W Q, *et al. Chinese Traditional & Herbal Drugs*, 2013, 44(22):3109-13.

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