

Lithospermoside Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Lithospermoside

Catalog No.: CFN99780

Cas No.: 63492-69-3

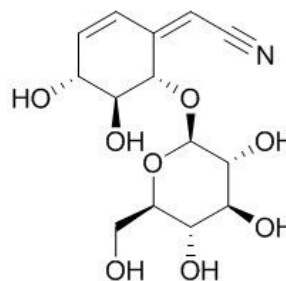
Purity: > 98%

M.F: C₁₄H₁₉NO₈

M.W: 329.30

Physical Description: Powder

Synonyms: (2Z)-2-[(4R,5S,6S)-4,5-dihydroxy-6-[[[(2S,3S,4R,5R,6S)-3,4,5-trihydroxy-6-(hydroxymethyl)-2-oxanyloxy]-1-cyclohex-2-enylidene]acetonitrile.



[Intended Use]

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

[Source]

The roots of *Lithospermum officinale*.

[Biological Activity or Inhibitors]

Lithospermoside possesses strong inhibitory effects on Epstein-Barr virus early antigen (EBV-EA) activation, the potencies of which were either comparable to or stronger than that of a green tea polyphenol, it also exerts anti-tumor promoting activity in two-stage mouse skin carcinogenesis using 7,12-dimethylbenz[a]anthracene (DMBA) and 12-O-tetradecanoylphorbol-13-acetate (TPA).^[1]

Lithospermoside has anti-inflammatory activity.^[2]

Lithospermoside has anti-oxidant activity.^[3]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[3]

Mobile phase: Methanol- 0.05% Phosphoric acid H₂O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 260 nm.

[Storage]

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

[References]

[1] Ito H, Miyake M, Nishitani E, *et al. Cancer Lett.*, 1999, 143(1):5-13.

[2] Liu F. *Shenyang Pharmaceutical University*, 2006.

[3] Zhou R, Xu R, Xiao W, *et al. Chinese Journal of Experimental Traditional Medical Formulae*, 2015 (15): 116-9.

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