

# Oxysophocarpine Datasheet

5<sup>th</sup> Edition (Revised in January, 2017)

## [ Product Information ]

**Name:** Oxysophocarpine

**Catalog No.:** CFN98321

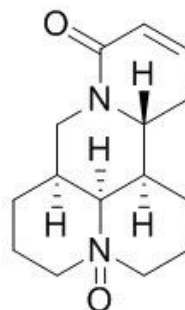
**Cas No.:** 26904-64-3

**Purity:** >=98%

**M.F:** C<sub>15</sub>H<sub>22</sub>N<sub>2</sub>O<sub>2</sub>

**M.W:** 262.4

**Physical Description:** Powder



**Synonyms:**Matridin-15-one,13,14-didehydro-,1-oxide; (7aS,13aR,13bR,13cS)-

2,3,6,7,7a,8,13,13a,13b,13c-decahydro-1H,5H,10H-dipyrido[2,1-f:3',2',1'-ij][1,6]naphthyridin-10-one 4-oxide.

## [ Intended Use ]

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

## [ Source ]

The root of *Styphnolobium japonicum* (L.) Schott.

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

Oxysophocarpine shows a significant anti-inflammatory effect in the mouse ear swelling test, it also attenuates inflammatory pain by suppressing the levels of phosphorylation of extracellular signal-regulated kinase 1/2, cyclooxygenase-2, prostaglandin E2, tumor necrosis factor  $\alpha$ , interleukin-1 beta and interleukin-6.<sup>[1]</sup>

Oxysophocarpine has significant neuroprotective effects that can be attributed to inhibiting endoplasmic reticulum (ER) stress-induced apoptosis.<sup>[2]</sup>

Oxysophocarpine has anti-nociceptive effects on the central and peripheral nervous systems, it can induce anti-nociception and increase the expression of GABA $\alpha$ 1 receptors in mice.<sup>[3]</sup>

Oxysophocarpine exerts anticonvulsant and neuroprotective effects on pilocarpine (PILo)-treated mice.<sup>[4]</sup>

## **[ Solvent ]**

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

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

Mobile phase: Methanol-0.2% Phosphatic acid=7:93;

Flow rate:1.0 ml/min;

Column temperature: 30°C;

The wave length of determination:205 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Yang Y, Li Y X, Wang H L, *et al. Planta Med.*,2015 Jul;81(10):791-7.

[2] Zhu Q L, Li Y X, Zhou R, *et al. Pharm. Biol.*,2014,52(8):1052-9.

[3] Xu T, Li Y, Wang H, *et al. Mol. Med. Rep.*,2013 Jun;7(6):1819-25.

[4] Liu G, Wang J, Deng X H, *et al. Cell. Mol. Neurobiol.*,2017 Mar;37(2):339-49.

[5] Sabir G, Aisa H A, Shi M H, *et al. Zhongguo Zhong Yao Za Zhi*,2007 Dec;32(24):2619  
-22.

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