

Sophoridine Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Sophoridine

Catalog No.: CFN97172

Cas No.: 6882-68-4

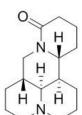
Purity: >=98%

M.F: C₁₅H₂₄N₂O

M.W: 248.36

Physical Description: Powder

Synonyms: 5-Epidihydrosophocarpine;(5 β)-Matridin-15-one.



[Intended Use]

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

[Source]

The roots of Sophora flavescens Ait.

[Biological Activity or Inhibitors]

Sophoridine(SRI) possesses antiviral activities against coxsackievirus B3 (CVB3), by

regulating cytokine expression, and it is likely that sophoridine itself, not its metabolites, is

mainly responsible for the antiviral activities; therefore, sophoridine may represent a

potential therapeutic agent for viral myocarditis.[1]

Sophoridine can significantly inhibit the growth of SW480 cells, and the administration of

SRI significantly inhibited the growth of xenograft tumors without apparent toxicity, SRI's

mechanism of action involved the induction of apoptosis; suggests that SRI produces

obvious anti-tumor effects in vitro and in vivo. It supports the viability of developing SRI as

a novel therapeutic prodrug for colorectal carcinoma (CRC) treatment, as well as

providing a method for identifying new anti-tumor drugs in traditional Chinese medicine

(TCM).[2]

Oxysophoridine produced the similar anti-arrhythmic effects as sophoridine did at the

equivalent effective dose. [3]

Early and short-time applying sophoridine has neuroprotective effect min permanent

middle cerebral artery occlusion (pMCAO) rat brain by down-regulating TRAF6 and

up-regulating p-ERK1/2 expression, ameliorating brain infaction and edema.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: 0.01 M KH₂PO₄ buffer-Methanol-Triethylamine= 94:6:0.01;

Flow rate: 1.0 ml/min;

Column temperature: 40 °C;

The wave length of determination: 208 nm.

[Storage]

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

[References]

[1] Zhang Y, Zhu H, Ye G, et al Life Sci., 2006, 78(17):1998-2005.

[2] Liang L, Wang X Y, Zhang X H, et al. Life Sci., 2012, 91(25-26):1295-303.

[3] Zhang H M, Li H Q. Acta pharmacologica Sinica, 1999, 20(6):517-20.

[4] Liu Z, He D, Zhang X, et al. Brain Res. Bull., 2012, 88(4):379-84.

[5]Li K, Wang H. Biomedical Chromatography Bmc, 2004, 18(3):178-82.

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