

Shikimic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Shikimic acid

Catalog No.: CFN99436

Cas No.: 138-59-0

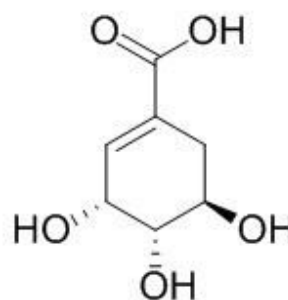
Purity: > 98%

M.F: C₇H₁₀O₅

M.W: 174.2

Physical Description: Powder

Synonyms: (3R,4S,5R)-3,4,5-trihydroxy-1-cyclohexenecarboxylic acid.



[Intended Use]

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

[Source]

The fruits of *Illicium verum*.

[Biological Activity or Inhibitors]

Shikimic acid is a key intermediate for the synthesis of the antiviral drug oseltamivir (Tamiflu®).^[1]

The shikimic acid pathway is responsible for the biosynthesis of many aromatic compounds by a broad range of organisms, including bacteria, fungi, plants and some protozoans, the shikimic acid pathway as a “druggable” target in lead discovery for new antibiotics and for the treatment of parasitic infections including malaria.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Acetonitrile- 2% Phosphoric acid H₂O=95:5;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 213 nm.

[Storage]

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

[References]

[1] Ghosh S, Chisti Y, Banerjee U C. *Biotechnol. Adv.*, 2012, 30(6):1425-31.

[2] Starcevic A, Akthar S, Dunlap C W, et al. *P. Natl. Acad. Sci.*, 2008, 105 (7):2533-7.

[3] Wang X Q, Guo Y J, Yang C S. *China Journal of Chinese Materia Medica*, 2001, 26(7):447-9.

[Contact]

Address:

S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Wuhan, Hubei 430056,
China

Web: www.chemfaces.com

Tech Support: service@chemfaces.com