

## Shikimic acid Datasheet

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

### [ Product Information ]

**Name:** Shikimic acid

**Catalog No.:** CFN99436

**Cas No.:** 138-59-0

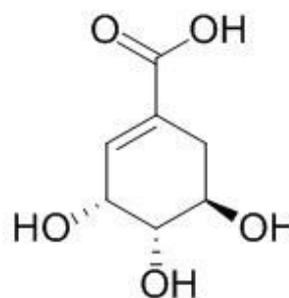
**Purity:** > 98%

**M.F:** C<sub>7</sub>H<sub>10</sub>O<sub>5</sub>

**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®).<sup>[1]</sup>

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.<sup>[2]</sup>

### **[ Solvent ]**

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

### **[ HPLC Method ]<sup>[3]</sup>**

Mobile phase: Acetonitrile- 2% Phosphoric acid H<sub>2</sub>O=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 ]**

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