

## Loganic acid Datasheet

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

### [ Product Information ]

**Name:** Loganic acid

**Catalog No.:** CFN98212

**Cas No.:** 22255-40-9

**Purity:** >=98%

**M.F:** C<sub>16</sub>H<sub>24</sub>O<sub>10</sub>

**M.W:** 376.36

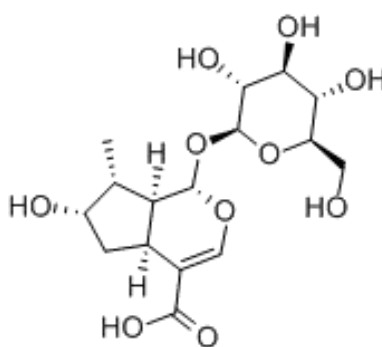
**Physical Description:** Powder

**Synonyms:**

(1S-(1alpha,4aalpha,6alpha,7alpha,7aalpha))-1-(beta-D-Glucopyranosyloxy)-1,4a,5,6,7,7a-hexahydro-6-hydroxy-7-methylcyclopenta(c)pyran-4-carboxylic acid ;

(1S,4aS,6S,7R,7aS)-1-(beta-D-glucopyranosyloxy)-6-hydroxy-7-methyl-1,4a,5,6,7,7a-hexahydrocyclopenta[c]pyran-4-carboxylic acid;

1-(hexopyranosyloxy)-6-hydroxy-7-methyl-1,4a,5,6,7,7a-hexahydrocyclopenta[c]pyran-4-carboxylic acid.



### [ Intended Use ]

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

## **[ Source ]**

The roots of *Gentiana macrophylla* Pall.

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

Loganic acid, isolated from cornelian cherry fruits, has protective effects on atherosclerosis risk factors in hypercholesterolemic rabbits, it shows significant anti-inflammatory effects decreasing TNF- $\alpha$  and IL-6 activity in serum. <sup>[1]</sup>

Loganic acid( 0.7% solution) has a strong intraocular pressure (IOP)-hypotensive effect which could be compared with the widely ophthalmologically used timolol. <sup>[2]</sup>

## **[ Solvent ]**

Pyridine, Methanol, Ethanol, etc.

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

Mobile phase: Methanol -0.04% Phosphoric acid H<sub>2</sub>O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 254 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Sozański T, Kucharska A Z, Szumny D, *et al. Pharmacol. Rep. Pr*, 2015, 67:40-40.

[2] Szumny D, Sozański T, Kucharska A Z, *et al. Evid.-Based. Compl. Alt.*, 2015, 2015:1-8.

[3] Lin P, Ye Z, Lu Y, *et al. Journal of Chinese Medicinal Materials*, 2004, 27(11):819-21.

## **[ Contact ]**

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