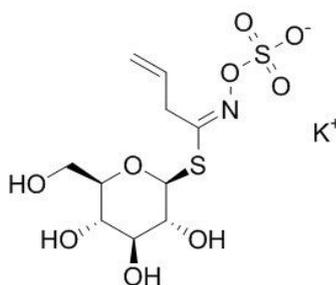


Sinigrin Datasheet

4th Edition (Revised in July, 2016)**[Product Information]****Name:** Sinigrin**Catalog No.:** CFN90453**Cas No.:** 64550-88-5**Purity:** >=98%**M.F:** C₁₀H₁₆KNO₉S₂**M.W:** 397.37**Physical Description:** Powder**Synonyms:** 1-S-[(1Z)-N-(sulfonatoxy)but-3-enimidoyl]-1-thio-beta-D-glucopyranose hydrate; 1-S-[(1E)-N-(sulfonatoxy)but-3-enimidoyl]-1-thio-beta-D-glucopyranose.**[Intended Use]**

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

[Source]The seeds of *Lepidium apetalum*.**[Biological Activity or Inhibitors]**

Sinigrin and indole-3-carbinol inhibit the hepatocarcinogenesis induced by diethylnitrosamine (DEN) when they are administered concurrently with the carcinogen.^[1] Sinigrin is a powerful phagostimulant for *Hyadaphis* = (*Lipaphis*) *erysimi* and *Brevicoryne brassicae*, whose host ranges are restricted primarily to the Cruciferae. *H. erysimi* was induced to feed on ten non-host species when leaves were systemically treated with sinigrin.^[2] Sinigrin and gluconasturtiin can induce aberrations at concentrations above 2 mg/ml. ^[3]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[4]

Mobile phase: Acetonitrile- 10 mM Aqueous tetramethylammonium bromide (pH 5.0), gradient elution ;
Flow rate: 1.0 ml/min;
Column temperature: Room Temperature;
The wave length of determination: 228 nm.

[Storage]

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

[References]

- [1] Tanaka T, Mori Y, Morishita Y, *et al.* *Carcinogenesis*, 1990, 11(8):1403-6.
- [2] Nault L R, Styer W E. *Entomol. Exp. Appl.*, 1972, 15(4):423-37.
- [3] Musk S R, Smith T K, Johnson I T. *Mutation Research/fundamental & Molecular Mechanisms of Mutagenesis*, 1995, 348(348):19-23.
- [4] Yuan D, Shim Y Y, Reaney M J T, *et al.* *Int. J. Food Sci. Technol.*, 2016, 51(3):690-9.

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