

**Product Name:** Swainsonine

**Catalog No.:** 3208

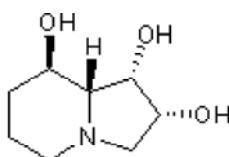
**Batch No.:** 3

CAS Number: 72741-87-8

IUPAC Name: (1*S*,2*R*,8*R*,8*aR*)-Octahydro-1,2,8-indolizinetriol

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>8</sub>H<sub>15</sub>NO<sub>3</sub>  
**Batch Molecular Weight:** 173.21  
**Physical Appearance:** White solid  
**Solubility:** water to 50 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.55 (CHCl<sub>3</sub>/MeOH/Et<sub>3</sub>N (7:2:1))  
**Melting Point:** Between 146 - 147°C  
**<sup>1</sup>H NMR:** Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel: +1 612 379 2956

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**Description:**

Inhibitor of  $\alpha$ -mannosidase II which inhibits glycoprotein processing. Displays anticancer and immune modulatory properties.

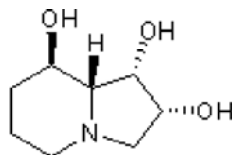
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>8</sub>H<sub>15</sub>NO<sub>3</sub>

Batch Molecular Weight: 173.21

Physical Appearance: White solid

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

water to 50 mM

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Sun et al** (2007) Inhibition of the growth of human gastric carcinoma *in vivo* and *in vitro* by swainsonine. *Phytomedicine* **14** 353. PMID: 17097281.

**Olden et al** (1991) The potential importance of swainsonine in therapy for cancers and immunology. *Pharmacol.Ther.* **50** 285. PMID: 1754603.

**Tulsiani et al** (1982) Swainsonine inhibits the biosynthesis of complex glycoproteins by inhibition of golgi mannosidase II. *J.Biol.Chem.* **257** 7936. PMID: 6806288.

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