

## Certificate of Analysis

**Product Name:** SNOG

**Catalog No.:** 0603

**Batch No.:** 8

CAS Number: 57564-91-7

IUPAC Name: S-Nitrosoglutathione

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>10</sub>H<sub>16</sub>N<sub>4</sub>O<sub>7</sub>S.0.33H<sub>2</sub>O

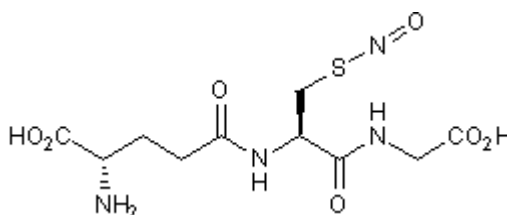
**Batch Molecular Weight:** 342.3251

**Physical Appearance:** Pink solid

**Solubility:** water to 100 mM

**Storage:** Desiccate at -20°C

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.23 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

**<sup>1</sup>H NMR:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	35.09	4.91	16.37
Found	35.24	4.72	15.98

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**Description:**

A carrier of NO, relaxing smooth muscle and inhibiting platelet aggregation.

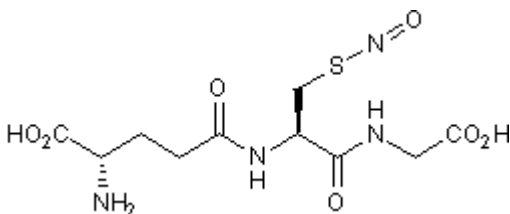
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>10</sub>H<sub>16</sub>N<sub>4</sub>O<sub>7</sub>S.O.33H<sub>2</sub>O

Batch Molecular Weight: 342.3251

Physical Appearance: Pink solid

**Batch Molecular Structure:**



**Storage:** Desiccate at -20°C

**Solubility & Usage Info:**

water to 100 mM

**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:**

**Gibson et al** (1992) An investigation of some S-nitrosothiols, and of hydroxy-arginine, on the mouse anococcygeus. Br.J.Pharmacol. **107** 715. PMID: 1472969.

**Radomski et al** (1992) S-Nitroso-glutathione inhibits platelet activation *in vitro* and *in vivo*. Br.J.Pharmacol. **107** 745. PMID: 1335336.

**Bannenberg et al** (1995) Characterization of the bronchodilator effects and fate of S-nitrosothiols in the isolated perfused and ventilated guinea pig lung. J.Pharmacol.Exp.Ther. **272** 1238. PMID: 7891339.

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