S-Nitrosoglutathione

Catalog Number N4148
Storage Temperature –20 °C

CAS RN 57564-91-7
Synonym: GSNO

**Product Description**
Molecular Formula: C_{10}H_{16}N_{4}O_{7}S
Molecular Weight: 336.32

This product is a NO-generating compound *in vivo*, smooth muscle relaxant and vasodilator, and it inhibits platelet activation.\(^1,2\) It is also reported to be a substrate for γ-glutamyl transpeptidase, which hydrolyzes the γ-glutamyl moiety of glutathione to give glutamate and cysteinylglycine. This enzyme catalyzes the decomposition of S-nitrosoglutathione to S-nitrosocysteinylglycine. The K\(_M\) value for S-nitrosoglutathione is 28 µM.\(^3\)

**Precautions and Disclaimer**
This product is for R&D use only, not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

**Preparation Instructions**
This product is soluble in water (20 mg/ml).

**Storage/Stability**
Store the product at –20 °C.

GSNO decomposes rapidly in solution to glutathione disulfide. The decomposition rate is ~5% per hour in water at room temperature.

**References**