

SNAP, NO donor

Catalog	Unit
TBI2579-10MG	10 mg
TBI2579-50MG	50 mg

Product Details

Formal Name: S-Nitroso-N-acetyl-D,L-penicillamine

Molecular Formula: C₇H₁₂N₂O₄S

Formula Weight: 220.24

CAS Number: 79032-48-7

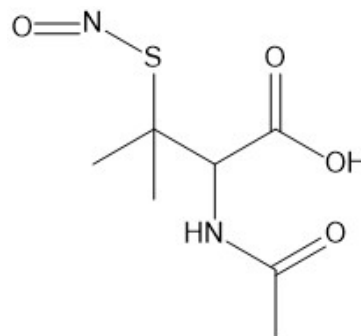
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (up to 25 mg/ml)

Storage: -20°C

Stability: ≥ 1 year



Applications

A stable S-nitroso compound that can be used as a nitric oxide (NO) donor in biological experiments. Its half-life for release of NO in aqueous solutions at pH 7 is 5 hours. A comprehensive study on its stability in various physiological contexts has been published. In the cardiovascular system SNAP induces vasodilation without inducing tolerance (unlike nitroglycerin). In cortical neurons it displays a protective effect after serum deprivation. It reverses temozolomide resistance in human glioblastoma. It is a useful agent for studying physiological and pharmacological actions of nitric oxide.

Functions

NO donor

Application Procedures

First dissolved in DMSO (up to 25 mg/ml), then diluted to aqueous buffer. Do not store solutions. Make solutions fresh and use immediately.

For research use only.