

## Product Data Sheet

Product Name: CAY10563

Cat. No.: GC43168

### Chemical Properties

Cas. No.

SMILES [O-]C1ON=[S+]C1C2=CC=C(C(F)(F)F)C=C2

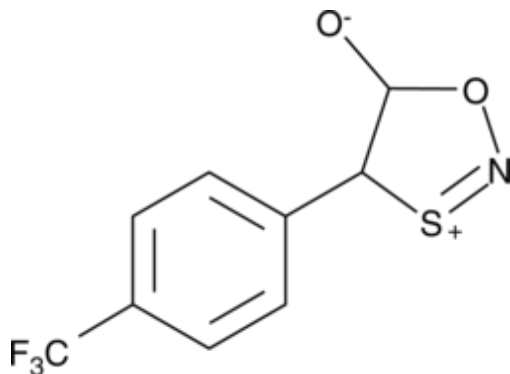
Formula C<sub>9</sub>H<sub>6</sub>F<sub>3</sub>NO<sub>2</sub>S M.Wt 249.2

Solubility DMF: 20 mg/ml, DMSO: 30 mg/ml, Ethanol: 30 mg/ml, Ethanol: PBS (pH7.2) (1:1): 0.5 mg/ml  
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



### Background

S-Nitrosothiols (RSNOs) are a class of molecules that function as exogenous and endogenous nitric oxide (NO) donors. RSNOs found in vivo include proteins such as S-nitrosohemoglobin and S-nitrosoalbumin, as well as low molecular weight species such as S-nitrosoglutathione (GSNO) and S-nitrosocysteine (CysNO). CAY10563 is a member of a new class of S-nitrosothiol species that act as an NO donors under acidic conditions. It decomposes with a half-life of one minute in 0.1 M phosphate buffer, pH 5.0, at 37°C and relaxes phenylephrine-constricted rat aortic strips 59% and

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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16% at pH 6.0 and 7.4, respectively.

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