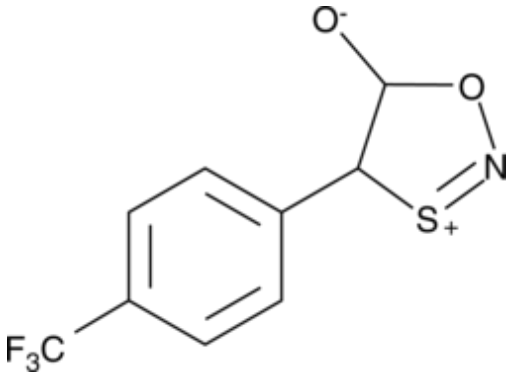
Product Data Sheet

Product Name: CAY10563
Cat. No.: GC43168

Chemical Properties

Cas. No.			
SMILES	[O-]C1ON=[S+]C1C2=CC=C(C(F)(F)F)C=C2		
Formula	C9H6F3NO2S	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

16% at pH 6.0 and 7.4, respectively.