

Product Data Sheet

Product Name: H2S Donor 5a

Cat. No.: GC41630

Chemical Properties

Cas. No. 134861-13-5

Chemical Name benzenecarbothioic acid, S-(benzoylazanyl) ester

SMILES O=C(SNC(C1=CC=CC=C1)=O)C2=CC=CC=C2

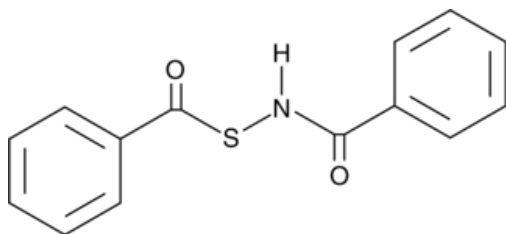
Formula $C_{14}H_{11}NO_2S$ M.Wt 257.3

Solubility DMSO : 100 mg/mL (388.64 mM; Need ultrasonic) 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

H2S Donor 5a is a stable cysteine activated hydrogen sulfide donor that can react with thiol containing reducing agents such as cysteine and reduced glutathione to release H₂S. H2S Donor 5a is very stable in aqueous solution. However, it will degrade and release H₂S in biological samples containing thiols such as blood, tissues or cells^[1]. H₂S exerts cytoprotective and anticancer effects, promotes wound healing, inhibits platelet aggregation and protects against myocardial ischemia, etc^[2].

References:

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

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[1]Zhao Y, et al. Cysteine-activated hydrogen sulfide (H₂S) donors. J Am Chem Soc. 2011 Jan 12;133(1):15-7.

[2]Zheng Y., et al. Toward hydrogen sulfide based therapeutics: Critical drug delivery and developability issues. Med. Res. Rev. 2018;38:57–100.

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