

2-Iminothiolane HCl

Chemical Properties

CAS No. : 4781-83-3

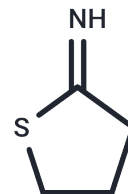
Formula: C₄H₈ClNS

Molecular Weight: 137.63

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

HCl



Biological Description

Description	2-Iminothiolane HCl (Trauts reagent) is a useful RNA-protein crosslinking reagent and an effective thiolation reagent for the introduction of sulphhydryl groups into oligosaccharides.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 24 mg/mL (174.38 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 0.5 mg/mL (3.63 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.2659 mL	36.3293 mL	72.6586 mL
5 mM	1.4532 mL	7.2659 mL	14.5317 mL
10 mM	0.7266 mL	3.6329 mL	7.2659 mL
50 mM	0.1453 mL	0.7266 mL	1.4532 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- A L Tarentino, et al. 2-Iminothiolane: a reagent for the introduction of sulphhydryl groups into oligosaccharides derived from asparagine-linked glycans. *Glycobiology*. 1993 Jun;3(3):279-85.
- Li Y, et al. Improved performance of collagen scaffolds crosslinked by Traut's reagent and Sulfo-SMCC. *J Biomater Sci Polym Ed*. 2017 May;28(7):629-647.
- Ma X, Bussonniere A, Liu Q. A facile sonochemical synthesis of shell-stabilized reactive microbubbles using surface-thiolated bovine serum albumin with the Traut's reagent. *Ultrason Sonochem*. 2017 May;36:454-465.
- Mokotoff M, et al. Caution in the use of 2-iminothiolane (Traut's reagent) as a cross-linking agent for peptides. The formation of N-peptidyl-2-iminothiolanes with bombesin (BN) antagonist (D-Trp(6),Leu(13)-psi[CH(2)NH]-Phe(14)) BN(6-14) and D-Trp-Gln-Trp-NH(2). *J Pept Res*. 2001 May;57(5):383-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481