

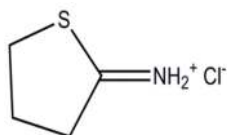
Traut's Reagent

ALTERNATE NAME: 2-Iminothiolane HCl; 2-IT; Dihydro-2-(3H)-thiophenimine hydrochloride; Dihydro-2-(3H)-thiophenimine HCl

CATALOG#: 2330-500, 1000

AMOUNT#: 500 mg, 1 g

STRUCTURE:



MOLECULAR FORMULA#: C₄H₇NS•HCl

MOLECULAR WEIGHT#: 137.63

CAS#: 4781-83-3

APPEARANCE: White solid

SOLUBILITY: H₂O or aqueous buffers

IDENTITY: ≥90% by NMR

STORAGE: +4 °C. Protect from moisture

DESCRIPTION:

A useful reagent for converting primary amine functional groups into free sulfhydryl groups

KEY FEATURES & APPLICATIONS:

- Water-soluble
- Adds a 5-atom spacer arm (8.1 Å) to minimize steric hindrance
- The spacer is cleavable at the disulfide bond with reducing agent, such as DTT, TCEP, etc.
- Commonly used to convert primary amines into sulfhydryl groups in a one-step process is called thiolation
- Amine reactive at pH 7-10 and is also an effective thiolation reagent for polysaccharides.
- Useful RNA-protein crosslinking reagent.

RELATED PRODUCTS:

Sulfo-SMCC (Cat. No. 2320-50, 100, 1000, 1 EA)

Sulfo-NHS (Cat. No. 2321-500, 5G, 1 EA)

Sulfo-NHS-Biotin (Cat. No. 2322-50, 250, 1 EA)

Sulfo-SANPAH (Cat. No. 2324-50, 250)

Sulfo-LC-SPDP (Cat. No. 2325-50, 250)

Sulfo-NHS-LC-Biotin (Cat. No. 2326-50, 250, 1EA)

BS3 Crosslinker (Cat. No. 2327-50, 250, 1000, 1 EA)

SPDP Crosslinker (Cat. No. 2328-50, 250)

Biotin-HPDP (Cat. No. 2329-50, 250)

N-Hydroxy succinimide (Cat. No. 2331-1G, 5G, 25G)

DTSSP Crosslinker (Cat. No. 2337-50, 250)

FOR RESEARCH USE ONLY! Not to be used on humans.