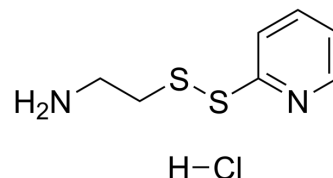


## 2-(Pyridyldithio)ethylamine hydrochloride

Cat. No.:	HY-101794
CAS No.:	106139-15-5
Molecular Formula:	C <sub>7</sub> H <sub>11</sub> ClN <sub>2</sub> S <sub>2</sub>
Molecular Weight:	222.76
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

In Vitro	H <sub>2</sub> O : 50 mg/mL (224.46 mM; Need ultrasonic) DMSO : ≥ 32 mg/mL (143.65 mM) * "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	<div>Solvent Concentration</div> <div>Mass</div>	1 mg	5 mg	10 mg
		1 mM	4.4891 mL	22.4457 mL	44.8914 mL
		5 mM	0.8978 mL	4.4891 mL	8.9783 mL
		10 mM	0.4489 mL	2.2446 mL	4.4891 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (448.91 mM); Clear solution; Need ultrasonic 2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (11.22 mM); Clear solution 3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (11.22 mM); Clear solution 4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (11.22 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	2-(Pyridyldithio)ethylamine hydrochloride is a novel disulfide intercalating cross-linking reagent.
In Vitro	2-(Pyridyldithio)ethylamine hydrochloride can be used in the preparation of a drug-octreotide conjugate <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## CUSTOMER VALIDATION

- Anal Chem. 2018 Oct 2;90(19):11333-11339.
- Bioorg Chem. 2023 Mar 20;135:106485.

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## REFERENCES

[1]. Lelle M, et al. Octreotide-Mediated Tumor-Targeted Drug Delivery via a Cleavable Doxorubicin-Peptide Conjugate. Mol Pharm. 2015 Dec 7;12(12):4290-300.

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

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