2-(Pyridyldithio)ethylamine hydrochloride

Cat. No.: HY-101794

CAS No.: 106139-15-5

Molecular Formula: $C_7H_{11}ClN_2S_2$

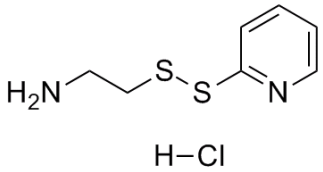
Molecular Weight: 222.76

Target: Others

Pathway: Others

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H_2O : 50 mg/mL (224.46 mM; Need ultrasonic)

DMSO : ≥ 32 mg/mL (143.65 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Mass / Solvent / Concentration	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: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (11.22 mM); Clear solution
2. 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
3. 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[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Anal Chem. 2018 Oct 2;90(19):11333-11339.

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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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