(S)-Dolaphenine hydrochloride

Cat. No.: HY-78828A

CAS No.: 135383-60-7

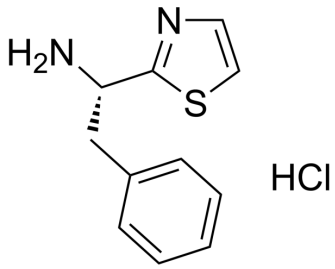
Molecular Formula: $C_{11}H_{13}ClN_2S$

Molecular Weight: 240.75

Target: Microtubule/Tubulin

Pathway: Cell Cycle/DNA Damage; Cytoskeleton

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

DMSO : ≥ 50 mg/mL (207.68 mM)
H_2O : ≥ 50 mg/mL (207.68 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	4.1537 mL	20.7684 mL	41.5369 mL
5 mM	0.8307 mL	4.1537 mL	8.3074 mL
10 mM	0.4154 mL	2.0768 mL	4.1537 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

(S)-Dolaphenine hydrochloride is a component of Dolastatin 10 (HY-15580). Dolastatin 10, an antineoplastic agent, inhibits tubulin polymerization[1].

REFERENCES

[1]. Zhou W , et al. A practical approach to asymmetric synthesis of dolastatin 10. Org Biomol Chem. 2017;15(29):6119-6131.

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