N-Boc-dolaproine

Cat. No.: HY-33046

CAS No.: 120205-50-7

Molecular Formula: $C_{14}H_{25}NO_5$

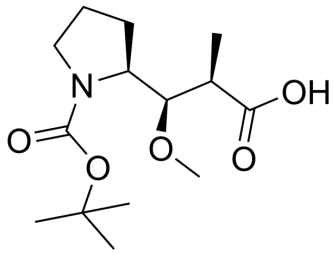
Molecular Weight: 287.35

Target: Others

Pathway: Others

Storage: 4°C, stored under nitrogen

* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (348.01 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.4801 mL	17.4004 mL	34.8008 mL
	5 mM	0.6960 mL	3.4801 mL	6.9602 mL
	10 mM	0.3480 mL	1.7400 mL	3.4801 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 (8.70 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (8.70 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

N-Boc-dolaproine (Dap) is the amino acid residue of the pentapeptide Dolastatin 10 (HY-15580). Dolastatin 10 inhibits tubulin polymerization and mitosis and has anticancer activity[1].

REFERENCES

[1]. Almeida W P, et al. An easy and stereoselective synthesis of N-Boc-dolaproine via the Baylis–Hillman reaction[J]. Tetrahedron letters, 2003, 44(5): 937-940.

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

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