Proteins

Screening Libraries

Product Data Sheet

Boc-Glycine-d₂

Cat. No.: HY-Y0978S1 CAS No.: 42492-65-9 Molecular Formula: $C_7H_{11}D_2NO_4$ Molecular Weight: 177.19

Target: Isotope-Labeled Compounds

Pathway: Others

Storage: Powder -20°C 3 years

2 years

In solvent -80°C 6 months

> -20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 250 mg/mL (1410.91 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	5.6437 mL	28.2183 mL	56.4366 mL
	5 mM	1.1287 mL	5.6437 mL	11.2873 mL
	10 mM	0.5644 mL	2.8218 mL	5.6437 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: ≥ 2.08 mg/mL (11.74 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (11.74 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (11.74 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Boc-Glycine-d₂ is the deuterium labeled Boc-Glycine[1].

In Vitro

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1].

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

REFERENCES	
	um Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.
Cauti	ion: Product has not been fully validated for medical applications. For research use only.
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