Proteins

Screening Libraries

Product Data Sheet

Picolinic acid-d₄

Cat. No.: HY-W259489S CAS No.: 284487-61-2 Molecular Formula: C₆HD₄NO₂ Molecular Weight: 127.13

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: 100 mg/mL (786.60 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	7.8660 mL	39.3298 mL	78.6596 mL
	5 mM	1.5732 mL	7.8660 mL	15.7319 mL
	10 mM	0.7866 mL	3.9330 mL	7.8660 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 (19.66 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (19.66 mM); Suspended solution; Need ultrasonic
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (19.66 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Ppicolinic-3,4,5,6-d₄ acid is the deuterium labeled Ppicolinic acid[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.

EFERENCES]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.				
	Caution: Product has not been fully validated for medical applications. For research use only.			
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