p-Tyramine-d_4 hydrochloride

Cat. No.: HY-W016823S

CAS No.: 1189884-47-6

Molecular Formula: $C_8H_8D_4ClNO$

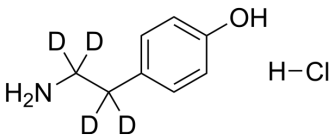
Molecular Weight: 177.66

Target: Endogenous Metabolite; Isotope-Labeled Compounds

Pathway: Metabolic Enzyme/Protease; Others

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 : 100 mg/mL (562.87 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	5.6287 mL	28.1436 mL	56.2873 mL
	5 mM	1.1257 mL	5.6287 mL	11.2575 mL
	10 mM	0.5629 mL	2.8144 mL	5.6287 mL

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

BIOLOGICAL ACTIVITY

Description

p-Tyramine-d_4 (hydrochloride) is the deuterium labeled Tyramine hydrochloride. Tyramine hydrochloride is an amino acid that helps regulate blood pressure. Tyramine hydrochloride occurs naturally in the body, and it's found in certain foods[1][2].

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

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

[2]. C Brown , et al. The Monoamine Oxidase Inhibitor-Tyramine Interaction. J Clin Pharmacol. 1989 Jun;29(6):529-32.

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

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