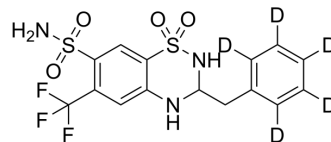


(Rac)-Bendroflumethiazide-d₅

Cat. No.:	HY-B1363S
CAS No.:	1330183-13-5
Molecular Formula:	C ₁₅ H ₉ D ₅ F ₃ N ₃ O ₄ S ₂
Molecular Weight:	426.45
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (586.24 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
1 mM		2.3449 mL	11.7247 mL	23.4494 mL
5 mM		0.4690 mL	2.3449 mL	4.6899 mL
10 mM		0.2345 mL	1.1725 mL	2.3449 mL

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

BIOLOGICAL ACTIVITY

Description

(Rac)-Bendroflumethiazide-d₅ is the deuterium labeled (Rac)-Bendroflumethiazide[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

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

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

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