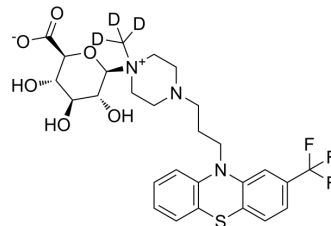


Trifluoperazine N-glucuronide-d₃

Cat. No.:	HY-137083S		
Molecular Formula:	C ₂₇ H ₂₉ D ₃ F ₃ N ₃ O ₆ S		
Molecular Weight:	586.64		
Target:	Isotope-Labeled Compounds		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Trifluoperazine N-glucuronide-d ₃ is deuterium labeled Trifluoperazine N-Glucuronide. Trifluoperazine N-Glucuronide (UGT1A4), as one of the human UGT1A isoforms, is expressed in the liver. Trifluoperazine N-Glucuronide catalyzes the imipramine and trifluoperazine Nglucuronide formation[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.
- [2]. Fujiwara R, et al. Interactions between human UGT1A1, UGT1A4, and UGT1A6 affect their enzymatic activities. *Drug Metab Dispos*. 2007;35(10):1781-1787

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

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