

Product Data Sheet

Tamsulosin-d₅ hydrochloride

Cat. No.:	HY-B0661AS	
Molecular Formula:	C ₂₀ H ₂₄ D ₅ ClN ₂ O ₅ S	$H_2N, S^O H_{N-O} H_{HCl}$
Molecular Weight:	450	
Target:	Adrenergic Receptor; Endogenous Metabolite; Isotope-Labeled Compounds	
Pathway:	GPCR/G Protein; Neuronal Signaling; Metabolic Enzyme/Protease; Others	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIVITY	
DIOLOGICAL ACTIV	
Description	Tamsulosin-d ₅ (hydrochloride) is the deuterium labeled Tamsulosin hydrochloride. Tamsulosin hydrochloride ((R)-(-)- YM12617) is an inhibitor of α1-adrenergic receptor. Tamsulosin hydrochloride is used for the research of prostatic hyperplasia. Tamsulosin hydrochloride attenuates abdominal aortic aneurysm growth in animal models[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]. Christopher Chapple, et al. Tamsulosin: an overview. World J Urol. 2002 Apr;19(6):397-404.

[3]. William G. Montgomery, BA, et al. Tamsulosin Attenuates Abdominal Aortic Aneurysm Growth. Surgery. 2018 Nov; 164(5): 1087-1092.

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

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