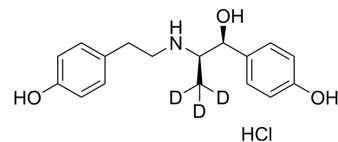


Ritodrine-d₃ hydrochloride

Cat. No.:	HY-B0452S1
Molecular Formula:	C ₁₇ H ₁₉ D ₃ ClNO ₃
Molecular Weight:	326.83
Target:	Adrenergic Receptor; Isotope-Labeled Compounds
Pathway:	GPCR/G Protein; Neuronal Signaling; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ritodrine-d ₃ (hydrochloride) is the deuterium labeled Ritodrine (hydrochloride). Ritodrine hydrochloride (DU21220 hydrochloride) is a β-2 adrenergic receptor agonist.
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]. Li, X., Y. Zhang, and Z. Shi, Ritodrine in the treatment of preterm labour: a meta-analysis. Indian J Med Res, 2005. 121(2): p. 120-7.
- [2]. Medicinal Chemistry of Adrenergics and Cholinergics
- [3]. 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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA