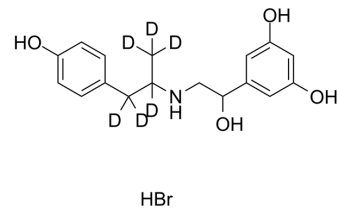


Fenoterol-d₆ hydrobromide

Cat. No.:	HY-B0976AS		
CAS No.:	1286129-04-1		
Molecular Formula:	C ₁₇ H ₁₆ D ₆ BrNO ₄		
Molecular Weight:	390.3		
Target:	Adrenergic Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description

Fenoterol-d₆ (hydrobromide) (Th-1165a-d6) is the deuterium labeled Fenoterol hydrobromide. Fenoterol hydrobromide (Th-1165a), a sympathomimetic agent, is a selective and orally active β₂-adrenoceptor agonist. Fenoterol hydrobromide is an effective bronchodilator and can be used for bronchospasm associated with asthma, bronchitis and other obstructive airway diseases research[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

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- [2]. Amrita Datta, et al. High-throughput screening identified selective inhibitors of exosome biogenesis and secretion: A drug repurposing strategy for advanced cancer. *Sci Rep.* 2018 May 25;8(1):8161.
- [3]. RC Heel, et al. Fenoterol: a review of its pharmacological properties and therapeutic efficacy in asthma. *Drugs.* 1978 Jan;15(1):3-32.
- [4]. Wei Wang, et al. Anti-inflammatory activities of fenoterol through β-arrestin-2 and inhibition of AMPK and NF-κB activation in AICAR-induced THP-1 cells. *Biomed Pharmacother.* 2016 Dec;84:185-190.
- [5]. Nada Choucair-Jaafar, et al. Beta2-adrenoceptor agonists alleviate neuropathic allodynia in mice after chronic treatment. *Br J Pharmacol.* 2009 Dec;158(7):1683-94.

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

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