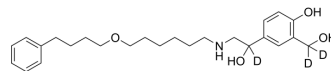


Salmeterol-d₃

Cat. No.:	HY-135119		
CAS No.:	497063-94-2		
Molecular Formula:	C ₂₅ H ₃₄ D ₃ NO ₄		
Molecular Weight:	418.58		
Target:	Adrenergic Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (238.90 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions		10 mg	
	1 mM	2.3890 mL	11.9451 mL	23.8903 mL
	5 mM	0.4778 mL	2.3890 mL	4.7781 mL
	10 mM	0.2389 mL	1.1945 mL	2.3890 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.97 mM); Clear solution			
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.97 mM); Clear solution			
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.97 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	Salmeterol-d ₃ is a deuterium labeled Salmeterol. Salmeterol is a potent and selective human β ₂ adrenoceptor agonist. Salmeterol shows potent stimulation of cAMP accumulation in CHO cells expressing human β ₂ , β ₁ and β ₃ adrenoceptors with pEC ₅₀ s of 9.6, 6.1, and 5.9, respectively[1].
IC ₅₀ & Target	β adrenergic receptor

REFERENCES

[1]. Panayiotis A Procopiou, et al. The discovery of long-acting saligenin β_2 adrenergic receptor agonists incorporating a urea group. Bioorg Med Chem. 2011 Oct 15;19(20):6026-32.

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

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