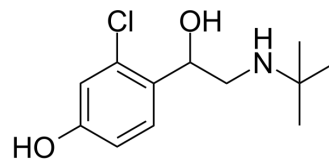


HOKU-81

Cat. No.:	HY-50291		
CAS No.:	58020-43-2		
Molecular Formula:	C ₁₂ H ₁₈ ClNO ₂		
Molecular Weight:	243.73		
Target:	Adrenergic Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (205.15 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	4.1029 mL	20.5145 mL	41.0290 mL
	5 mM	0.8206 mL	4.1029 mL	8.2058 mL
	10 mM	0.4103 mL	2.0515 mL	4.1029 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (10.26 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (10.26 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (10.26 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	HOKU-81 (4-Hydroxytulobuterol) is one of the metabolites of Tulobuterol (HY-B1810). HOKU-81 is a potent and selective β ₂ -adrenoceptor stimulant. HOKU-81 has bronchodilating effect ^{[1][2]} .
IC₅₀ & Target	Beta-2 adrenergic receptor
In Vitro	HOKU-81 (4-Hydroxytulobuterol) is approximately 8 times more potent than tulobuterol, approximately twice as potent as salbutamol, and approximately as potent as isoprenaline in relaxing effect on the isolated tracheal smooth muscle

preparation of guinea pigs^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kubo S, Matsubara I, Yamazaki M et al. Pharmacological studies of 1-(2-chloro-4-hydroxyphenyl)-2-t-butylaminoethanol (HOKU-81), a new bronchodilator. 1st Communication: Bronchodilator and cardiovascular actions. *Arzneimittelforschung*. 1980;30(8):1272-8.

[2]. Gomi Y, Shirahase H, Funato H. Effects of 1-(2-chloro-4-hydroxyphenyl)-t-butylaminoethanol (HOKU-81), a new bronchodilator, on isolated trachea and atria of guinea pig. *Jpn J Pharmacol*. 1979 Aug;29(4):515-24.

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

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