

KUL-7211 racemate

Chemical Properties

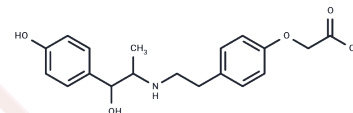
CAS No. : 911196-40-2

Formula: C₁₉H₂₃NO₅

Molecular Weight: 345.39

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	KUL 7211, a selective β -adrenoceptor agonist, exists as a racemate, referred to as KUL 7211 racemate, which is the mixture of its enantiomers.
Targets(IC50)	Adrenergic Receptor
In vitro	KUL 7211 also reduces the spontaneous rhythmic contraction in a canine ureteral spiral preparation in a concentration-dependent manner, the pD ₂ value being 6.83±0.20. These data clearly demonstrate that KUL 7211 selectively stimulates both ureteral β ₂ - and β ₃ -adrenoceptors and potently relaxes ureteral smooth muscle. KUL 7211 is a new β -adrenoceptor agonist in vitro. In rat isolated organs, its selectivities, for inhibition of spontaneous uterine contraction (mediated via β ₂ -adrenergic stimulation) and inhibition of colonic contraction (via β ₃ -adrenergic stimulation) versus increase in atrial rate (via β ₁ -adrenergic stimulation), are 56.3 and 242.2, respectively. KUL 7211 relaxes 80 mM KCl induced tonic contractions in both rabbit (pD ₂ value: 5.86±0.13, whose ureteral relaxation is mediated via β ₂ -adrenergic stimulation) and canine (pD ₂ value: 6.52±0.16, via β ₃ -adrenergic stimulation) isolated ureters in a concentration-dependent manner. These KUL 7211-induced relaxing effects are antagonized by ICI-118,551 (selective β ₂ -adrenoceptor antagonist, pK _B value: 8.91±0.24) in the rabbit ureter and by bupranolol (non-selective β -adrenoceptor antagonist, pK _B value: 6.85±0.12) in the canine ureter.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8953 mL	14.4764 mL	28.9528 mL
5 mM	0.5791 mL	2.8953 mL	5.7906 mL
10 mM	0.2895 mL	1.4476 mL	2.8953 mL
50 mM	0.0579 mL	0.2895 mL	0.5791 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Tomiyama Y, et al. Pharmacological profile of KUL-7211, a selective beta-adrenoceptor agonist, in isolated ureteral smooth muscle. J Pharmacol Sci. 2003 Aug;92(4):411-9.

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