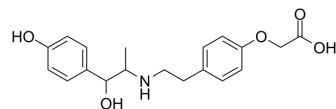


## KUL-7211 racemate

Cat. No.:	HY-19673A
CAS No.:	911196-40-2
Molecular Formula:	C <sub>19</sub> H <sub>23</sub> NO <sub>5</sub>
Molecular Weight:	345.39
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	KUL-7211 racemate is the racemate of KUL-7211. KUL-7211 is a selective $\beta$ -adrenoceptor agonist <sup>[1]</sup> .
IC <sub>50</sub> & Target	$\beta$ -adrenoceptor <sup>[1]</sup>
In Vitro	<p>KUL-7211 is a new <math>\beta</math>-adrenoceptor agonist in vitro. In rat isolated organs, its selectivities, for inhibition of spontaneous uterine contraction (mediated via <math>\beta_2</math>-adrenergic stimulation) and inhibition of colonic contraction (via <math>\beta_3</math>-adrenergic stimulation) versus increase in atrial rate (via <math>\beta_1</math>-adrenergic stimulation), are 56.3 and 242.2, respectively. KUL-7211 relaxes 80 mM KCl induced tonic contractions in both rabbit (pD<sub>2</sub> value: 5.86±0.13, whose ureteral relaxation is mediated via <math>\beta_2</math>-adrenergic stimulation) and canine (pD<sub>2</sub> value: 6.52±0.16, via <math>\beta_3</math>-adrenergic stimulation) isolated ureters in a concentration-dependent manner. These KUL-7211-induced relaxing effects are antagonized by ICI-118,551 (selective <math>\beta_2</math>-adrenoceptor antagonist, pK<sub>B</sub> value: 8.91±0.24) in the rabbit ureter and by bupranolol (non-selective <math>\beta</math>-adrenoceptor antagonist, pK<sub>B</sub> value: 6.85±0.12) in the canine ureter. KUL-7211 also reduces the spontaneous rhythmic contraction in a canine ureteral spiral preparation in a concentration-dependent manner, the pD<sub>2</sub> value being 6.83±0.20. These data clearly demonstrate that KUL-7211 selectively stimulates both ureteral <math>\beta_2</math>- and <math>\beta_3</math>-adrenoceptors and potently relaxes ureteral smooth muscle<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

[1]. 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.

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

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