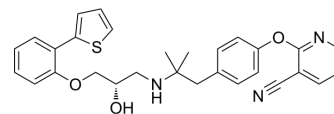


Lubabegron

Cat. No.:	HY-123012
CAS No.:	391920-32-4
Molecular Formula:	C ₂₉ H ₂₉ N ₃ O ₃ S
Molecular Weight:	499.62
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (200.15 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.0015 mL	10.0076 mL	20.0152 mL
5 mM	0.4003 mL	2.0015 mL	4.0030 mL
10 mM	0.2002 mL	1.0008 mL	2.0015 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Lubabegron is a potent modulator of β -adrenergic receptor (β -AR). Lubabegron demonstrates antagonistic behavior at the β_1 and β_2 receptor subtypes and agonistic behavior at the β_3 receptor subtype in cattle. Lubabegron reduces NH₃ gas emissions from an animal or its waste^[1].

IC₅₀ & Target

β adrenergic receptor

REFERENCES

[1]. Kube JC, et al. Effects of various doses of lubabegron on calculated ammonia gas emissions, growth performance, and carcass characteristics of beef cattle during the last 56 days of the feeding period [published correction appears in Transl Anim Sci. 2021 Nov 15;5(4):txab210]. Transl Anim Sci. 2021;5(3):txab137.

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

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