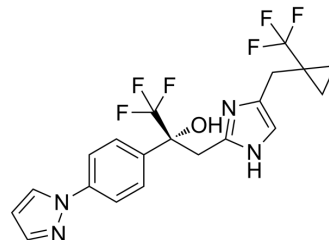


(R)-MK-5046

Cat. No.:	HY-14342A		
CAS No.:	1021736-25-3		
Molecular Formula:	C ₂₀ H ₁₈ F ₆ N ₄ O		
Molecular Weight:	444.37		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description

(R)-MK-5046 is the inactive isomer of MK-5046 (HY-14342), and can be used as an experimental control. MK-5046 is a potent, selective and orally active Bombesin receptor subtype-3 (BRS-3) allosteric agonist with an IC₅₀ and an EC₅₀ value of 27 and 25 nM for hBRS-3, respectively. MK-5046 inhibits food intake and reduces body weight of diet-induced obese (DIO) mouse models. MK-5046 can be used for the research of obesity^{[1][2][3]}.

REFERENCES

- [1]. Guan XM, et al. Antiobesity effect of MK-5046, a novel bombesin receptor subtype-3 agonist. *J Pharmacol Exp Ther.* 2011 Feb;336(2):356-364.
- [2]. Sebhat IK, et al. Discovery of MK-5046, a Potent, Selective Bombesin Receptor Subtype-3 Agonist for the Treatment of Obesity. *ACS Med Chem Lett.* 2010 Oct 18;2(1):43-47.
- [3]. Ramos-Alvarez I, et al. The Nonpeptide Agonist MK-5046 Functions As an Allosteric Agonist for the Bombesin Receptor Subtype-3. *J Pharmacol Exp Ther.* 2022 Aug;382(2):66-78.

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

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