Firazorexton

Cat. No.:	HY-137440				
CAS No.:	2274802-95-6				
Molecular Formula:	$C_{22}H_{25}F_{3}N_{2}O_{4}S$				
Molecular Weight:	470.51				
Target:	Orexin Receptor (OX Receptor)				
Pathway:	GPCR/G Protein; Neuronal Signaling				
Storage:	Powder	-20°C	3 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.1254 mL	10.6268 mL	21.2535 ml
	5 mM	0.4251 mL	2.1254 mL	4.2507 mL
	10 mM	0.2125 mL	1.0627 mL	2.1254 mL

Description	Firazorexton (TAK-994 free base) is an orally active, brain-permeable orexin type 2 receptor (OX2R) agonist. Firazorexton has the potential to improve narcolepsy like symptoms ^{[1][2]} .			
IC ₅₀ & Target	OX ₂ Receptor			
In Vitro	Firazorexton activates recombinant human OX2R (EC50 value was 19 nM) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
In Vivo	Firazorexton (1, 3, 10, 30 mg/kg, oral) exerts a wakeful effect in mice by activating OX2R ^[1] . Firazorexton (10 mg/kg oral) significantly increases wakefulness time in monkeys, but does not increase OX-A levels in pooled cerebrospinal fluid (CSF) ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES

Product Data Sheet

,OH

*NH 0=S=0

0:



[1]. Ishikawa T, et al. TAK-994, a Novel Orally Available Brain-Penetrant Orexin 2 Receptor-Selective Agonist, Suppresses Fragmentation of Wakefulness and Cataplexy-Like Episodes in Mouse Models of Narcolepsy. J Pharmacol Exp Ther. 2023 Jun;385(3):193-204.

[2]. Yamada R, et al. The orexin receptor 2 (OX2R)-selective agonist TAK-994 increases wakefulness without affecting cerebrospinal fluid orexin levels in cynomolgus monkeys. Pharmacol Biochem Behav. 2024 Jan;234:173690.

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

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