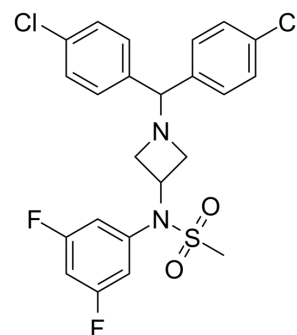


Drinabant

Cat. No.:	HY-14788
CAS No.:	358970-97-5
Molecular Formula:	C ₂₃ H ₂₀ Cl ₂ F ₂ N ₂ O ₂ S
Molecular Weight:	497.38
Target:	Cannabinoid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	-20°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



BIOLOGICAL ACTIVITY

Description	Drinabant (AVE1625) is an orally active CB1 receptor antagonist. Drinabant (AVE1625) inhibits the agonist-stimulated calcium signal with IC ₅₀ values of 25 nM and 10 nM for the hCB1-R and rCB1-R, respectively, and is ineffective for the hCB2-R [1].		
IC₅₀ & Target	hCB1-R 25 nM (IC ₅₀)	rCB1-R 10 nM (IC ₅₀)	CB2 10000 nM (IC ₅₀)
In Vivo	<p>AVE1625 (10 mg/kg orally once daily), combined with Olanzapine (HY-14541) attenuates body weight gain, diminishing the enhanced food intake while maintaining increased energy expenditure and decreased motility^[2].</p> <p>AVE1625 (1, 3, and 10 mg/kg ip), reverses abnormally persistent LI induced by MK-801 (HY-15084B) or neonatal nitric oxide synthase inhibition in rodents, and improves both working and episodic memory^[3].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>		
Animal Model:	Rats ^[1] .		
Dosage:	30 mg/kg.		
Administration:	Oral gavage, single dose.		
Result:	<p>Had free access to food during the preceding night (postprandial state) caused a pronounced reduction of food intake during the subsequent 10-12 h without differences in their locomotor activity relative to that of the control group.</p> <p>Caused an increase in FFA and glycerol, indicating increased lipolysis from fat tissue.</p> <p>Immediately resulted in a pronounced increase in V_{CO2} and V_{O2}, indicating increased oxidation of energetic substrates and increased TEE.</p>		
Animal Model:	Female Hanover Wistar rats weighing 225 ± 8.6 g ^[2] .		
Dosage:	10 mg/kg.		
Administration:	Orally once daily.		
Result:	Reduced their weight markedly within the first 3 days of treatment where upon animals		

maintained lower body weight, although they lost about 7.3 ± 1.3 g fat during the 12 days of treatment.

REFERENCES

- [1]. Andreas W Herling, et al. CB1 receptor antagonist AVE1625 affects primarily metabolic parameters independently of reduced food intake in Wistar rats. *Am J Physiol Endocrinol Metab.* 2007 Sep;293(3):E826-32.
- [2]. Michaela Liebig, et al. Profiling of energy metabolism in olanzapine-induced weight gain in rats and its prevention by the CB1-antagonist AVE1625. *Obesity (Silver Spring)*. 2010 Oct;18(10):1952-8.
- [3]. Mark D Black, et al. AVE1625, a cannabinoid CB1 receptor antagonist, as a co-treatment with antipsychotics for schizophrenia: improvement in cognitive function and reduction of antipsychotic-side effects in rodents. *Psychopharmacology (Berl)*. 2011 May;215
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Caution: Product has not been fully validated for medical applications. For research use only.

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