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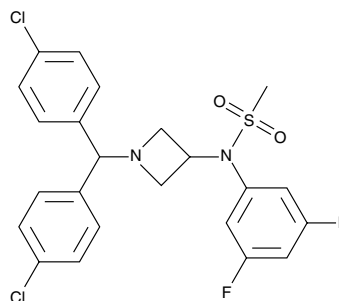
Product Information



AVE-1625

Item No. 10009021

CAS Registry No.: 358970-97-5
Formal Name: N-[1-[bis(4-chlorophenyl)methyl]-3-azetidinyl]-N-(3,5-difluorophenyl)-methanesulfonamide
Synonyms: Drinabant
MF: C₂₃H₂₀Cl₂F₂N₂O₂S
FW: 497.4
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 231 nm



Laboratory Procedures

For long term storage, we suggest that AVE-1625 be stored as supplied at -20°C. It should be stable for at least two years.

AVE-1625 is supplied as a crystalline solid. A stock solution may be made by dissolving the AVE-1625 in an organic solvent purged with an inert gas. AVE-1625 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of AVE-1625 in ethanol is approximately 0.15 mg/ml and approximately 15 mg/ml in DMSO and DMF.

AVE-1625 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, AVE-1625 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. AVE-1625 has a solubility of approximately 0.3 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

The central cannabinoid (CB₁) receptor is a G protein-coupled receptor that is widely distributed in the central nervous system and several peripheral tissues and binds the active component of cannabis, Δ⁹-tetrahydrocannabinol.¹ Signaling through the CB₁ receptor is implicated in attentional and working memory deficits as well as obesity.²⁻⁴ AVE-1625 is a highly potent, selective antagonist for the CB₁ receptor with K_i values of 0.16-0.44 nM.⁵ At 1-3 mg/kg, AVE-1625 significantly improves the performance of rodents in working memory tasks.⁵ At 30 mg/kg, AVE-1625 reduces caloric intake by more than 50% of controls and significantly increases lipolysis from fat tissues and reduces hepatic glycogen levels in rodents.⁵

References

1. Howlett, A.C., Song, C., Berglund, B.A., *et al.* Characterization of CB₁ cannabinoid receptors using receptor peptide fragments and site-directed antibodies. *Mol. Pharmacol.* **53**, 504-510 (1998).
2. Gómez, R., Navarro, M., Ferrer, B., *et al.* A peripheral mechanism for CB₁ cannabinoid receptor-dependent modulation of feeding. *J. Neurosci.* **22**(21), 9612-9617 (2002).
3. Mackie, K. Cannabinoid receptors as therapeutic targets. *Annu. Rev. Pharmacol. Toxicol.* **46**, 101-122 (2006).
4. Borowsky, B., Stevens, R., Mark, B., *et al.* AVE1625, a cannabinoid CB₁ antagonist, as a co-treatment for Schizophrenia: Improvement in cognitive function and reduction of antipsychotic-side effects in animal models. *Neuropsychopharmacology* **30**, S77-S142 (2005).
5. Herling, A.W., Gossel, M., Haschke, G., *et al.* CB₁ receptor antagonist AVE1625 affects primarily metabolic parameters independently of reduced food intake in wistar rats. *Am. J. Physiol. Endocrinol. Metab.* **293**, E826-E832 (2007).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10009021

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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