

Product Data Sheet

Product Name: COR659

Cat. No.: GC60723

Chemical Properties

Cas. No. 544450-68-2

SMILES O=C(C1=C(NC(C2=CC=C(Cl)C=C2)=O)SC(C)=C1CC)OC

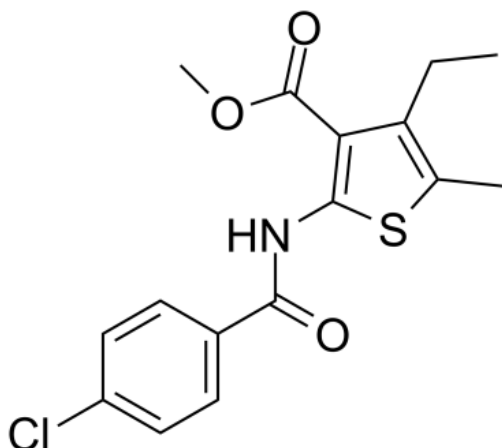
Formula $C_{16}H_{16}ClNO_3S$ M.Wt 337.82

Solubility DMSO: 33.33 mg/mL (98.66 mM) Storage 4°C, away from moisture and light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

COR659 is a GABAB positive allosteric modulator (PAM). COR659 suppresses alcohol and chocolate self-administration in rats[1].

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

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COR659 apparently exerts its effects via a composite mechanism, including positive allosteric modulation of the GABAB receptor and an action at the cannabinoid CB1 receptor[3].

COR659 (0, 2.5, 5 and 10 mg/kg) treatment is completely ineffective on lever-responding (FR10) for regular food pellets in food-deprived Wistar rats[1]. COR659 is able to suppress lever-responding for a sucrose solution in sP rats and a chocolate solution in Wistar rats[2]. Animal Model: Male sP and Wistar rats[1].

[1]. Paola Maccioni, et al. Suppressing effect of COR659 on alcohol, sucrose, and chocolate self-administration in rats: involvement of the GABA B and cannabinoid CB 1 receptors.

Psychopharmacology (Berl). 2017 Sep;234(17):2525-2543. [2]. Francesca Ferlenghi, et al. The GABA B receptor positive allosteric modulator COR659: In vitro metabolism, in vivo pharmacokinetics in rats, synthesis and pharmacological characterization of metabolically protected derivatives. Eur J Pharm Sci. 2020 Dec 1;155:105544. [3]. Paola Maccioni, et al. Anti-addictive properties of COR659 - Additional pharmacological evidence and comparison with a series of novel analogues. Alcohol. 2019 Mar;75:55-66.

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