
Product Data Sheet

Product Name: 5-HT6/7 antagonist 1

Cat. No.: GC35160

Chemical Properties

Cas. No. 131999-28-5

SMILES O=C1N(CCN2CCC(C3=NOC4=C3C=CC(F)=C4)CC2)C(C5=C1C=CC=C5)=O

Formula $C_{22}H_{20}FN_3O_3$ M.Wt 393.41

Solubility Soluble in DMSO Storage Store at -20°C

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

5-HT6/7 antagonist 1 is a multifunctional ligand that antagonizes 5-HT6/7/2A and D2 receptors, without interacting with M1 receptors and hERG channels. 5-HT6/7/2A, D2[1]

Targeting 5-HT6 and/ or 5-HT7 receptors with antagonist drugs could constitute a promising strategy for treating symptoms of BPSD while avoiding some of the side effects of current antipsychotic drugs. Nevertheless, due to the complex pathology of dementia and accompanying behavioral and psychological symptoms, it seems unlikely that focusing on a single therapeutic target would be sufficient to provide adequate clinical benefit, and it is likely that successful development of novel anti-BPSD agents should involve a "designed" multifactorial approach[1].

[1]. Ko?aczkowski M, et al. Novel arylsulfonamide derivatives with 5-HT₆/5-HT₇ receptor antagonism targeting behavioral and psychological symptoms of dementia. J Med Chem. 2014 Jun 12;57(11):4543-57.

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

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