

Product Data Sheet

Product Name: DAA-1106

Cat. No.: GC30930

Chemical Properties

Cas. No. 220551-92-8

SMILES CC(N(CC1=CC(OC)=CC=C1OC)C2=CC(F)=CC=C2OC3=CC=CC=C3)=O

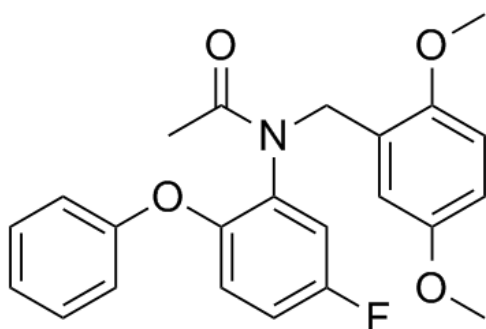
Formula $C_{23}H_{22}FNO_4$ M.Wt 395.42

Solubility DMSO : ≥ 35 mg/mL (88.51 mM) 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

DAA1106 is a potent and selective ligand for peripheral benzodiazepine receptor (PBR), as a potent and selective agonist at the peripheral benzodiazepine receptor. Target: PBR in vitro: DAA1106 binding to PBR was significantly increased in widespread areas in MCI subjects when compared to healthy

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

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controls.[1] DAA-1106 is a drug which acts as a potent and selective agonist at the peripheral benzodiazepine receptor, also known as the mitochondrial 18 kDa translocator protein or TSPO, but with no affinity at the GABAA receptor. [2]in vivo: DAA-1106 has anxiolytic effects in animal studies. DAA-1106 has a sub-nanomolar binding affinity (K_i) of 0.28nM, and has been used extensively in its ^3H or ^{11}C radiolabelled form to map TSPO in the body and brain, which has proved especially helpful in monitoring the progress of neurodegenerative diseases such as Alzheimer's disease. [2]

[1]. Yasuno F, et al. Increased binding of peripheral benzodiazepine receptor in mild cognitive impairment-dementia converters measured by positron emission tomography with [^{11}C]DAA1106. *Psychiatry Res.* 2012 Jul 30;203(1):67-74. [2]. DAA1106

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