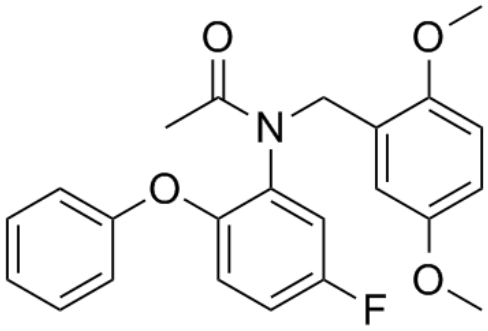
Product Data Sheet

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:PBRin vitro: DAA1106 binding to PBR was significantly increased in widespread areas in MCI subjects when compared to healthy

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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 (Ki) of 0.28nM, and has been used extensively in its 3H or 11C 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 [11C]DAA1106. Psychiatry Res. 2012 Jul 30;203(1):67-74. [2]. DAA1106