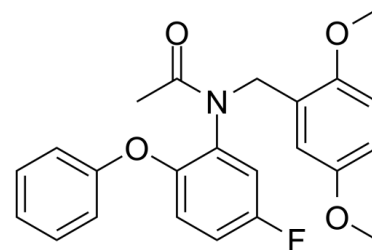


## Data Sheet

<b>Product Name:</b>	DAA-1106
<b>Cat. No.:</b>	CS-5474
<b>CAS No.:</b>	220551-92-8
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>22</sub> FNO <sub>4</sub>
<b>Molecular Weight:</b>	395.42
<b>Target:</b>	GABA Receptor
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Neuronal Signaling
<b>Solubility:</b>	DMSO : 100 mg/mL (252.90 mM; Need ultrasonic)



### BIOLOGICAL ACTIVITY:

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 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 GABA<sub>A</sub> receptor. [2] in vivo: DAA-1106 has anxiolytic effects in animal studies. DAA-1106 has a sub-nanomolar binding affinity (K<sub>i</sub>) of 0.28nM, and has been used extensively in its <sup>3</sup>H or <sup>11</sup>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]

### References:

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

[2]. DAA1106

### CAIndexNames:

Acetamide, N-[(2,5-dimethoxyphenyl)methyl]-N-(5-fluoro-2-phenoxyphenyl)-

### SMILES:

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

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

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