FAUC 346

Cat. No.: HY-138809

CAS No.: 474432-65-0

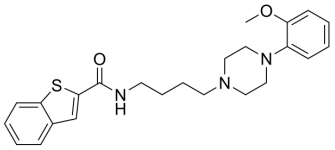
Molecular Formula: $C_{24}H_{29}N_3O_2S$

Molecular Weight: 423.57

Target: Dopamine Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (236.09 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3609 mL	11.8044 mL	23.6088 mL
	5 mM	0.4722 mL	2.3609 mL	4.7218 mL
	10 mM	0.2361 mL	1.1804 mL	2.3609 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (5.90 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.90 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

FAUC 346, a highly selective D_3 partial agonist (EC_{50} = 1.5 nM)[1][2].

IC_{50} & Target

D_3 Receptor
1.5 nM (EC50)

In Vitro

FAUC 346, an in vitro D_3-selective ligand with a K_i of 0.23 nM in CHO cells for D_3 receptor[1].
FAUC346 shows some affinity for 5HT1A receptors (K_i = 41 nM) and for α1 receptors (K_i = 15 nM)[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Bertrand Kuhnast, et al. Synthesis and radiolabeling of N-[4-[4-(2-[11C]methoxyphenyl)piperazin-1-yl]butyl]benzo[b]thiophene-2-carboxamide -- a potential radiotracer for D3 receptor imaging with PET. Nucl Med Biol. 2006 Aug;33(6):785-95.

[2]. Carsten Hocke, et al. 18F-Labeled FAUC 346 and BP 897 derivatives as subtype-selective potential PET radioligands for the dopamine D3 receptor. ChemMedChem. 2008 May;3(5):788-93.

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