

Product Data Sheet

Product Name: FAUC 346

Cat. No.: GC62972

Chemical Properties

Cas. No. 474432-65-0

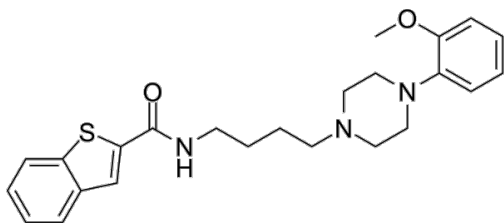
Formula $C_{24}H_{29}N_3O_2S$ M.Wt 423.57

Solubility DMSO : 100 mg/mL (236.09 mM; Storage 4°C, protect from light
Need ultrasonic)

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

FAUC 346, a highly selective D3 partial agonist ($EC_{50} = 1.5$ nM), also demonstrates an inhibitory

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

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effect on cocaine-seeking behavior[1][2].

FAUC 346, an in vitro D3-selective ligand with a K_i of 0.23 nM in CHO cells for D3 receptor[1]. FAUC346 shows some affinity for 5HT1A receptors (K_i = 41 nM) and for α_1 receptors (K_i = 15 nM)[1].

[1]. Bertrand Kuhnast, et al. Synthesis and radiolabeling of N-[4-[4-(2-[^{11}C]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. ^{18}F -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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