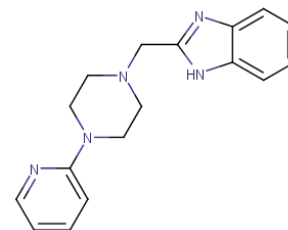


Catalog Number: CM03765

产品信息

Catalog Number:
CM03765CAS号:
70006-24-5分子式:
C₁₇H₁₉N₅主要靶点:
Dopamine Receptor主要通路:
神经科学|G蛋白偶联受体分子量:
293.37溶解度:
DMSO:10 mg/mL (34.09 mM)

靶点活性

D4:12.4 nM(EC50)|dopamine D4 receptor:12.4 nM(EC50)

体外活性

ABT-724 is a selective dopamine D(4) receptor agonist that activates human dopamine D(4) receptors with an EC(50) of 12.4 nM and 61% efficacy, with no effect on dopamine D(1), D(2), D(3), or D(5) receptors[1].

体内活性

ABT-724 dose-dependently facilitates penile erection when given s.c. to conscious rats, an effect that is blocked by haloperidol and clozapine but not by domperidone. A proerectile effect is observed after intracerebroventricular but not intrathecal administration, suggesting a supraspinal site of action. s.c. injections of ABT-724 increase intracavernosal pressure in awake freely moving rats. In the presence of sildenafil, a potentiation of the proerectile effect of ABT-724 is observed in conscious rats. The ability of ABT-724 to facilitate penile erection together with the favorable side-effect profile indicates that ABT-724 could be useful for the treatment of erectile dysfunction[1].

动物实验

ABT-724 (maleate salt) was freshly prepared and administered to rats via s.c. injection into the back neck area (1 mL/kg injection volume). For intracerebroventricular (ICV) or intrathecal administrations, rats were allowed at least 1 week of recovery from surgery before behavioral testing. The compounds of interest were infused ICV (left lateral ventricle) in a 5- μL volume or 10 μL intrathecally. After the experiment was completed, infusion of 0.5% fast-green dye in saline solution and subsequent dissection were carried out to confirm the diffusion of the injection solution[1].

描述

ABT-724 is an agonist of dopamine D4 receptor(EC50: 12.4 nM)

储存

Powder: -20°C for 3 years | In solvent: -80°C for 1 year