Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

AM251

Catalog No: tcsc3920

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
183232-66-8

Formula:
$C_{22}H_{21}Cl_2IN_4O$

Pathway:
GPCR/G Protein

Target:
Cannabinoid Receptor

Purity / Grade:
>98%

Solubility:
DMSO : 25 mg/mL (45.03 mM; Need ultrasonic); H2O :

Observed Molecular Weight:
555.24

Product Description

AM251 is a selective **cannabinoid** (**CB**)1 receptor antagonist with **IC_{50}** of 8 nM, also acts as an agonist at micromolar concentration.

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IC50 & Target: IC50: 8 nM (CB1 receptor)[1]

In Vitro: AM251 is a CB1 receptor antagonist/inverse agonist. AM251 produces an agonist response in HEK293 cells, similar to that found in the yeast expression system[2]. AM-251 reduces cholesteryl ester synthesis in unstimulated and acetylated LDL-stimulated Raw 264.7 macrophages, $CB2^{+/+}$ and $CB2^{-/-}$ peritoneal macrophages[3].

In Vivo: The CB1 antagonist AM251 (3 mg/kg, i.p.) decreases capsaicin-evoked nocifensive behavior ($F_{1,18}$=28.45, p1,18=14.83, p1,18=4.704, p=0.0587). Planned comparisons reveal that AM251 reduces nocifensive behaviors in fatty-acid amide hydrolase (FAAH) KO mice (p0.2) relative to their respective vehicle controls. AM251 (3 mg/kg, i.p.) reduces the duration of heat hypersensitivity in FAAH KO ($F_{1,9}$=21.43, p0.3). AM251 suppresses capsaicin-evoked heat hypersensitivity in a time-dependent manner in FAAH KO ($F_{5,9}$=4.349, p0.3). Post-hoc analysis reveals that FAAH KO mice receiving vehicle (i.p.) display heightened thermal hypersensitivity at 30 (p[4]. One-way ANOVA shows that AM251 (AM-251) injected into the rats significantly decreases both of the percentage of entries in the open arms and time spent in the open arms, compare to controls. The Tukey-Kramer test analysis reveals a significant reduction for the doses of 1 mg/kg (P[5].