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

FR167344 free base

Catalog No: tcsc0018453

Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg

Specifications

CAS No:
215258-13-2

Formula:
$C_{30}H_{28}BrCl_2N_5O_4$

Pathway:
GPCR/G Protein

Target:
Bradykinin Receptor

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Observed Molecular Weight:
673.38

Product Description

FR167344 free base is an orally active, nonpeptide **bradykinin receptor B2** antagonist. FR167344 free base shows a high affinity binding to the B2 receptor with an **IC_{50}** value of 65 nM and no binding affinity for the B1 receptor.

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IC50 & Target: IC50: 65 nM (Bradykinin receptor B2)[1]

In Vitro: In competitive experiments using membranes prepared from Chinese hamster ovary cells expressing the bradykinin receptor subtypes, FR167344 shows a high affinity binding to the B2 receptor with IC_{50} values of 65 nM, and no binding affinity for the B1 receptor. FR167344 inhibits the B2 receptor-mediated phosphatidylinositol (PI) hydrolysis and produces a concentration-dependent rightward shift in the dose-response curve to bradykinin. This shift is accompanied by a progressive reduction of maximal response. Estimated pA2 values for the antagonism of bradykinin induced PI hydrolysis by FR167344 is 8.0. FR167344 shows no stimulatory effects on PI hydrolysis[1].

In Vivo: Oral administration of FR167344 inhibits carrageenin-induced paw oedema in rats with an ID_{50} of 2.7 mg/kg at 2h after carrageenin injection. Oral administration of FR167344 inhibits kaolin-induced writhing in mice with an ID_{50} of 2.8 mg/kg in 10 min writhing and 4.2 mg/kg in 15 min writhing. Oral administration of FR167344 inhibits caerulein-induced pancreatic oedema with an ID_{50} of 13.8 mg/kg as well as increases in amylase and lipase of blood samples with ID_{50} of 10.3 and 7.4 mg/kg, respectively, in rats[2].