Web: www.taiclone.com
Tel: +886-2-2735-9682
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RS 504393

Catalog No: tcsc0851

Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Size: 50mg

Specifications

CAS No:
300816-15-3

Formula:
$C_{25}H_{27}N_3O_3$

Pathway:
Immunology/Inflammation;GPCR/G Protein

Target:
CCR;CCR

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 10 mg/mL (23.95 mM)

Observed Molecular Weight:
417.5

Product Description

RS 504393 is a selective **CCR2** chemokine receptor antagonist (**IC_{50}** values are 89 nM and > 100 μM for inhibition of human

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recombinant CCR2 and CCR1 receptors respectively).

IC50 & Target: IC50: 89 nM (CCR2)[5]

In Vitro: RS 504393 inhibits the MCP-1-induced chemotaxis with an IC_{50} of 330 nM. RS 504393 treatment suppresses allergen induced β-hexosaminidase release significantly. Without allergen priming, MCP-1 induces mast cell degranulation, which is completely suppressed by RS 504393[4].

In Vivo: RS504393 (0.3-3 μg) with CCL2 progressively blocks thermal hyperalgesia dose-dependently in mice[1]. RS 504393 (5 mg/kg, i.v.) supresses the elevated numbers of leukocytes and increased total protein content in BALF induced by The LPS. RS504393 significantly down regulates the LPS-induced elevation of IL-1β, PAI-1 mRNA and protein expressions. RS504393 significantly suppresses induced lung edema, protein-rich fluid, polymorphonuclear accumulation and bronchial wall thickening induced by LPS[2]. RS-504393 significantly reduces renal pathology, especially the extensive interstitial fibrosis mediated by decrease in type I collagen synthesis in a UUO model[3].