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

Irbesartan

Catalog No: tcsc2140

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Size: 200mg

Size: 500mg

Size: 1g

Specifications

CAS No:
138402-11-6

Formula:
$C_{25}H_{28}N_6O$

Pathway:
GPCR/G Protein

Target:
Angiotensin Receptor

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 59 mg/mL (137.68 mM)

Alternative Names:
SR-47436;BMS-186295

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Observed Molecular Weight:
428.53

Product Description

Irbesartan is a highly potent and specific angiotensin II type 1 (AT1) receptor antagonist with IC50 of 1.3 nM.

Target: Angiotensin Receptor

Irbesartan treatment markedly induces the expression of the adipogenic marker gene adipose protein 2 (aP2) in 3T3-L1 cells in a concentration-dependent manner with EC50 of 3.5 μM and 3.3-fold induction at the concentration of 10 μM. Irbesartan (10 μM) markedly induces transcriptional activity of the peroxisome proliferator–activated receptor-γ (PPARγ) by 3.4-fold independent of its AT1 receptor blocking action. Pretreatment with Irbesartan (~10 μM) decreases angiotensin II-induced apoptosis in rat vascular smooth muscle cells by blocking angiotensin II internalization in a concentrationdependent manner.

Oral administration of Irbesartan (1 mg/kg) reduces angiotensin II (AII)-induced hypertension, equipotent with losartan in conscious normotensive rats, markedly more active than losartan (10 mg/kg) in normotensive cynomolgus monkeys. Administration of Irbesartan (7 mg/kg/day) significantly prevents skeletal muscle apoptosis and muscle atrophy in rats with monocrotaline-induced congestive heart failure (CHF), which is involved with the decrease of TNFα level and attributed to AT1 receptor blocking.