

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

Observed Molecular Weight:

428.53

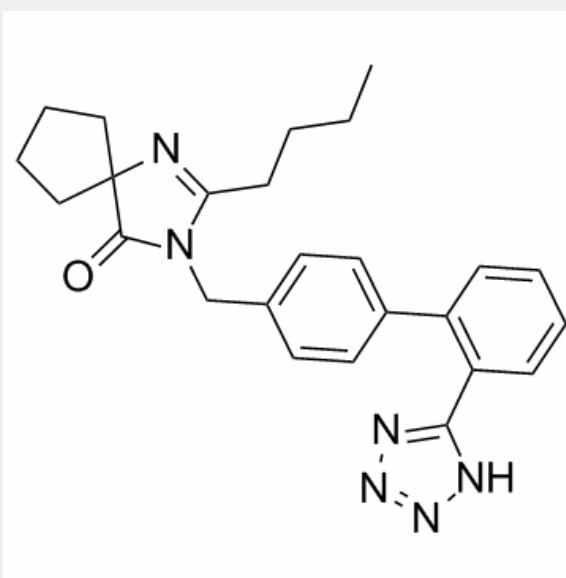
Product Description

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 μ M and 3.3-fold induction at the concentration of 10 μ M. Irbesartan (10 μ M) markedly induces transcriptional activity of the peroxisome proliferator-activated receptor- γ (PPAR γ) by 3.4-fold independent of its AT1 receptor blocking action. Pretreatment with Irbesartan (\sim 10 μ M) decreases angiotensin II-induced apoptosis in rat vascular smooth muscle cells by blocking angiotensin II internalization in a concentration-dependent manner.

Oral administration of Irbesartan (1 mg/kg) reduces angiotensin II (All)-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 TNF α level and attributed to AT1 receptor blocking.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!