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

KU14R

Catalog No: tcsc1007

Available Sizes

Size: 10mg

Size: 50mg

Specifications

CAS No:
189224-48-4

Formula:
$C_{13}H_{14}N_2O$

Pathway:
Protein Tyrosine Kinase/RTK

Target:
Insulin Receptor

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Observed Molecular Weight:
214.26

Product Description

KU14R is a new I(3)-R antagonist, which selectively blocks the insulin secretory response to imidazolines.

IC50 Value:

Target: Insulin Receptor

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A new I(3)-R antagonist, KU14R (2 (2-ethyl 2,3-dihydro-2-benzofuranyl)-2-imidazole), which selectively blocks the insulin secretory response to imidazolines. KU14R partially attenuated responses to Imidazole-4-acetic acid-ribotide (IAA-RP). The effects of KU14R on stimulus secretion-coupling in normal mouse islets and beta cells was compared by measuring KATP channel activity, plasma membrane potential, cytosolic calcium concentration ([Ca2+]c) and dynamic insulin secretion. In the presence of 10 mmol/l but not of 5 mmol/l glucose, KU14R (30, 100 or 300 micromol/l) was ineffective. KATP channel was blocked by KU14R (IC50 31.9 micromol/l, Hill slope -1.5). KU14R does not act as an antagonist of either efaroxan or S22068 at an imidazoline site in vivo.