

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

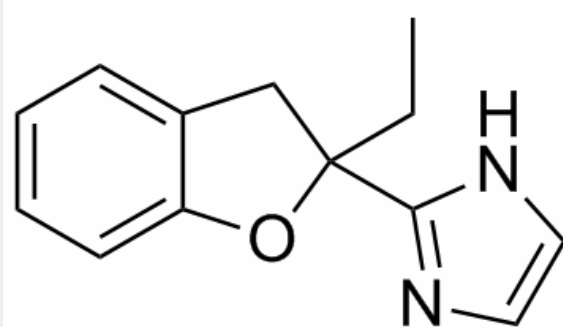
Product Description

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

IC50 Value:

Target: Insulin Receptor

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 ($[Ca^{2+}]_c$) 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.



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