Product Data Sheet

Product Name: KU14R
CAS No.: 189224-48-4
Cat. No.: HY-15481
MWT: 214.26
Formula: C13H14N2O
Purity: >98%
Solubility: DMSO 100 mg/ml

Mechanisms:
Pathways: Protein Tyrosine Kinase/RTK; Target: Insulin Receptor

Biological Activity:
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 ([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 efaxoxan or S22068 at an ...

References:
[5]. ...

Caution: Not fully tested. For research purposes only
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