

PQ401

Catalog No: tcsc1386



Available Sizes

Size: 10mg

Size: 50mg



Specifications

CAS No:

196868-63-0

Formula:

$C_{18}H_{16}ClN_3O_2$

Pathway:

Protein Tyrosine Kinase/RTK

Target:

IGF-1R

Purity / Grade:

>98%

Solubility:

DMSO : 14.29 mg/mL (41.81 mM; Need ultrasonic); H₂O :

Observed Molecular Weight:

341.79

Product Description

PQ401, a selective insulin-like growth factor-1 receptor blocker, is a novel diarylurea compound that inhibits IGF1R autophosphorylation with IC₅₀

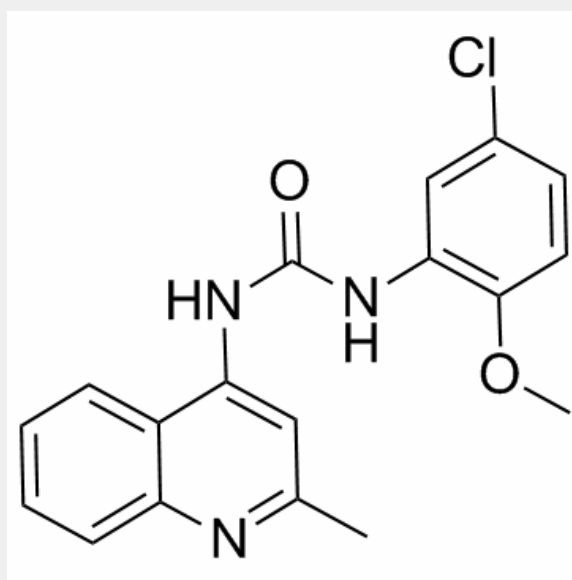
IC₅₀ Value: 12 uM (inhibited autophosphorylation of the IGF-1R in cultured human MCF-7 cells) [1]

Target: IGF1R

in vitro: PQ401 inhibited autophosphorylation of the IGF-IR in cultured human MCF-7 cells with an IC₅₀ of 12 micromol/L and autophosphorylation of the isolated kinase domain of the IGF-IR with an IC₅₀

in vivo: IGF1R inhibition by PQ401 exerted no significant effects on diabetic kidney disease parameters, arguing against a role for IGF-I in the pathogenesis of diabetic kidney disease. However, PQ401 affects normal kidneys, inducing renal hypertrophy as well as collagen and fat accumulation, with increased renal IGF-I mRNA, suggestive of a damage-regeneration process [2].

Clinical trial: No Development Reported



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