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

Cinaciguat

Catalog No: tcsc1169

Available Sizes

Size: 2mg

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:
329773-35-5

Formula:
$C_{36}H_{39}NO_5$

Pathway:
GPCR/G Protein

Target:
Guanylate Cyclase

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
BAY 58-2667

Observed Molecular Weight:
565.7

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Product Description

Cinaciguat is an activator of **guanylate cyclase (sGC)**, and used for acute decompensated heart failure.

In Vitro: Cinaciguat (10 μM) significantly enhances intracellular cGMP generation. Cinaciguat does not dose-dependent effects on cell contraction and calcium transients[2].

In Vivo: Cinaciguat (10 mg/kg/day, p.o.) treatment in diabetic rats does not influence blood glucose levels, but leads to attenuated water intake. Cinaciguat treatment alleviates diabetes mellitus related oxidative stress, protects against DM related alteration of the NO-sGC-cGMP-PKG signalling, and alleviates DM related myocardium hypertrophy and apoptosis[1]. Cinaciguat (1-10-100 nM) induces concentration-dependent relaxations in strips from both WT and apo-sGC mice, but does not have any effect on phasic activity induced by $PGF_{2\alpha}$ in WT or apo-sGC strips[3].