Taiclone®
Quality Guarantee

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

MK 0893

Catalog No: tcsc0324

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:
870823-12-4

Formula:
$C_{32}H_{27}Cl_2N_3O_4$

Pathway:
GPCR/G Protein

Target:
Glucagon Receptor

Purity / Grade:
>98%

Solubility:
H2O :

Observed Molecular Weight:
588.48

Product Description

MK 0893 is a potent, selective **glucagon receptor** antagonist with **IC_{50}** of 6.6 nM, and > 200 fold selectivity against GIPR, PAC1, GLP-1R, VPAC1 and VPAC2.

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IC50 & Target: IC50: 6.6 nM (glucagon receptor)

In Vitro: MK 0893 is selective for glucagon receptor relative to other family B GPCRs, showing IC_{50} values of 1020 nM for GIPR, 9200 nM for PAC1, and >10000 nM for GLP-1R, VPAC1, and VPAC2. MK 0893 is active against the rhesus monkey GCGR, showing an IC_{50} of 56 nM in a cAMP assay with CHO cells expressing the rhesus GCGR[1].

In Vivo: MK 0893 blunts glucagon-induced glucose elevation in hGCGR mice and rhesus monkeys. It also lowers ambient glucose levels in both acute and chronic mouse models: in hGCGR ob/ob mice it reduces glucose (AUC 0-6 h) by 32% and 39% at 3 and 10 mpk single doses, respectively. In hGCGR mice on a high fat diet, MK 0893 at 3, and 10 mpk po in feed lowers blood glucose levels by 89% and 94% at day 10, respectively, relative to the difference between the vehicle control and lean hGCGR mice[1].