

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

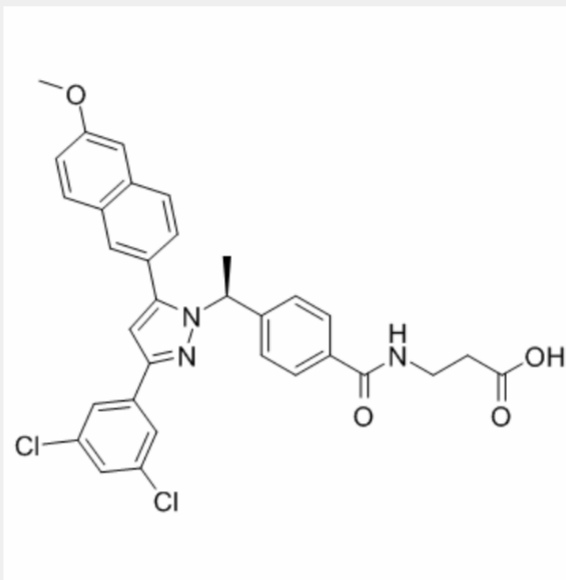
Product Description

MK 0893 is a potent, selective **glucagon receptor** antagonist with **IC₅₀** of 6.6 nM, and > 200 fold selectivity against GIPR, PAC1, GLP-1R, VPAC1 and VPAC2.

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

In Vitro: MK 0893 is selective for glucagon receptor relative to other family B GPCRs, showing IC₅₀ 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 IC₅₀ 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].



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