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

NSC23925

Catalog No: tcsc0016032

Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Specifications

CAS No:
858474-14-3

Formula:
$C_{22}H_{26}Cl_2N_2O_2$

Pathway:
Membrane Transporter/Ion Channel

Target:
P-glycoprotein

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Observed Molecular Weight:
421.36

Product Description

NSC23925 is a novel, selective and effective **P-glycoprotein** (**Pgp**) inhibitor.

IC50 & Target: P-glycoprotein[1]

In Vitro:

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NSC23925 is a novel, selective and effective P-glycoprotein (Pgp) inhibitor. SKOV-3 cells with long-term exposure of 1 μM NSC23925 show stable growth in culture medium. NSC23925 specifically inhibits Pgp overexpression to prevent the emergence of paclitaxel resistance during paclitaxel treatment[1]. NSC23925 reverses chemoresistance in a wide variety of tumor types where Multidrug resistance 1 (MDR1) is highly expressed. Maximal reversal of MDR is typically seen in NSC23925 doses between 0.5 and 1 μM. The IC_{50} for NSC23925 is 8 μM in SKOV-3/SKOV-3_{TR} and 25 μM in OVCAR8/OVCAR8_{TR} cell lines, whereas the mean concentration of NSC23925 required for maximal reversal of resistance in SKOV-3_{TR} or OVCAR8_{TR} to cytotoxic drugs is 0.5 μM to 1 μM[2].

In Vivo: Both saline alone and NSC23925 alone treated tumors grow progressively. The usage of NSC23925 in paclitaxel chemotherapy significantly prolongs anticancer efficacy of paclitaxel[1].