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

NSC 23766 (trihydrochloride)

Catalog No: tcsc3233

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:
1177865-17-6

Formula:
$C_{24}H_{38}Cl_3N_7$

Pathway:
GPCR/G Protein

Target:
Ras

Purity / Grade:
>98%

Solubility:
DMSO : 7.6 mg/mL (14.31 mM; Need ultrasonic and warming); H2O : ≥ 32 mg/mL (60.27 mM)

Observed Molecular Weight:
530.96

Product Description

NSC 23766 trihydrochloride is a specific inhibitor of the binding and activation of **Rac GTPase**, used for cancer treatment.

In Vitro: NSC 23766 (100 μM) treatment effectively inhibits polar body emission in a dose-dependent manner. NSC 23766 (200 μM)

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increases the percentage of morphologically abnormal spindles of oocytes. In NSC 23766-treated oocytes, the p-MAPK protein expression is significantly decreased[2]. NSC23766 (50 μM) plus 100 ng/mL Jagged1, GDF9 and BMP15, reduces the number of germLine cell cysts and increases the number of primordial follicles[3]. NSC23766 significantly inhibits GTP-Rac1 activity and phosphorylation of Rac1-PAK, ERKs and p38 MAPK in the spinal dorsal horn neurons[4].

In Vivo: NSC23766 (2.5 mg/kg/day, i.p.) significantly attenuates the onset of spontaneous diabetes in NOD mice, without significant effects on the growth (body weights) of the mice. NSC23766 significantly increases the expression of Rac1 and CHOP, a marker for ER-stress, in islets from NOD mice[1].