

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

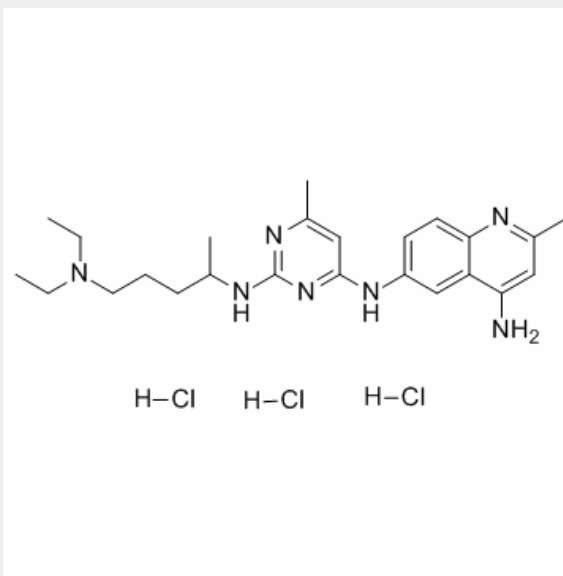
Product Description

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)

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 μ M) 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].



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