Taiclone®
Quality Guarantee

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Email: order@taiclone.com

NVP-ADW742

Catalog No: tcsc0450

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
475488-23-4

Formula:
$C_{28}H_{31}N_5O$

Pathway:
Protein Tyrosine Kinase/RTK; Apoptosis

Target:
IGF-1R; Insulin Receptor; Apoptosis

Form:
White to light yellow (Solid)

Purity / Grade:
98.31%

Solubility:
10 mM in DMSO

Storage Instruction:
Powder -20°C for 3 years; 4°C for 2 years In solvent -80°C for 6 months; -20°C for 1 month

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Alternative Names:
ADW742; GSK 552602A; ADW

Observed Molecular Weight:
453.58

Product Description

NVP-ADW742(ADW742; GSK 552602A) is an selective IGF-1R inhibitor with IC50 of 0.17 μM, >16-fold more potent against IGF-1R than InsR; little activity to HER2, PDGFR, VEGFR-2, Bcr-Abl and c-Kit.

IC50 value: 0.17 uM [1]

Target: IGF-1R

in vitro: NVP-ADW742 exhibits a 6-fold greater selectivity for IGF-1R versus InsR with IC50 of 2.8 μM; minimal inhibitory activity against c-Kit, HER1, PDGFR, VEGFR2, or Bcr-Abl p210 with IC50 greater than 5 μM. NVP-ADW742 significantly inhibits the serum-stimulated cell proliferation in a variety of tumor cell lines in dose-dependent manner, with IC50 values of 0.1-0.5 μM for the multiple myeloma (MM) cell lines, and the antitumor effects on MM cells can not be overcome by the co-culture with BMSCs. NVP-ADW742 also abrogates the responsiveness of tumor cells to IL-6 in the presence of serum [1]. Pretreatment of the H526 cell line with NVP-ADW742 inhibited IGF-IR signaling and growth with IC(50) values between 0.1 and 0.4 micro M [2].

in vivo: Administration of NVP-ADW742 at 10 mg/kg twice daily significantly inhibits tumor growth, prolongs survival, and enhances the antitumor effect of cytotoxic chemotherapy melphalan in the mice model of diffuse MM [1].