

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

Alternative Names:

ADW742; GSK 552602A; ADW

Observed Molecular Weight:

453.58

Product Description

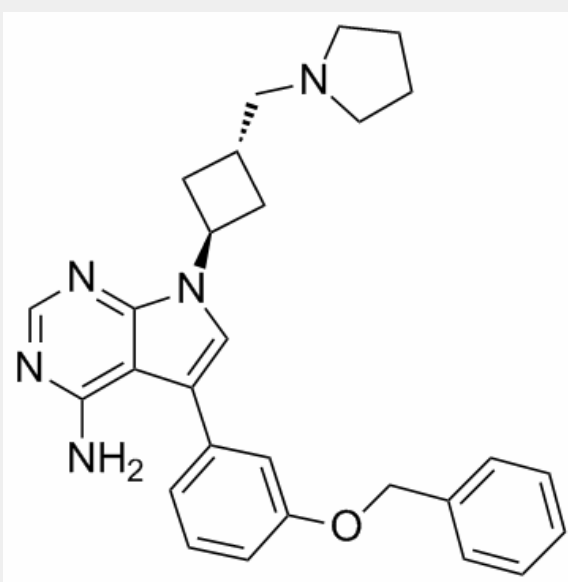
NVP-ADW742(ADW742; GSK 552602A) is an selective IGF-1R inhibitor with IC₅₀ of 0.17 μ M, >16-fold more potent against IGF-1R than InsR; little activity to HER2, PDGFR, VEGFR-2, Bcr-Abl and c-Kit.

IC₅₀ value: 0.17 μ M [1]

Target: IGF-1R

in vitro: NVP-ADW742 exhibits a 6-fold greater selectivity for IGF-1R versus InsR with IC₅₀ of 2.8 μ M; minimal inhibitory activity against c-Kit, HER1, PDGFR, VEGFR2, or Bcr-Abl p210 with IC₅₀ greater than 5 μ M. 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 μ M 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-1R 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].



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