

# 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

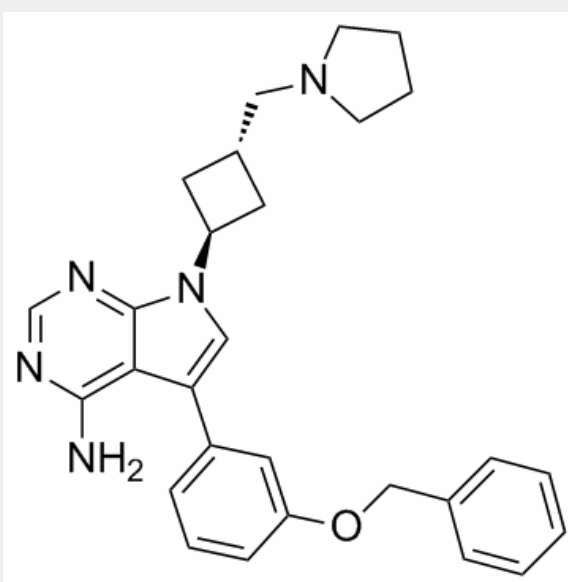
NVP-ADW742(ADW742; GSK 552602A ) is an selective IGF-1R inhibitor with IC<sub>50</sub> of 0.17  $\mu$ M, >16-fold more potent against IGF-1R than InsR; little activity to HER2, PDGFR, VEGFR-2, Bcr-Abl and c-Kit.

IC<sub>50</sub> value: 0.17  $\mu$ M [1]

Target: IGF-1R

in vitro: NVP-ADW742 exhibits a 6-fold greater selectivity for IGF-1R versus InsR with IC<sub>50</sub> of 2.8  $\mu$ M; minimal inhibitory activity against c-Kit, HER1, PDGFR, VEGFR2, or Bcr-Abl p210 with IC<sub>50</sub> greater than 5  $\mu$ M. NVP-ADW742 significantly inhibits the serum-stimulated cell proliferation in a variety of tumor cell lines in dose-dependent manner, with IC<sub>50</sub> values of 0.1-0.5  $\mu$ 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].



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