

Product Name: NVP ADW 742

Catalog No.: 5247

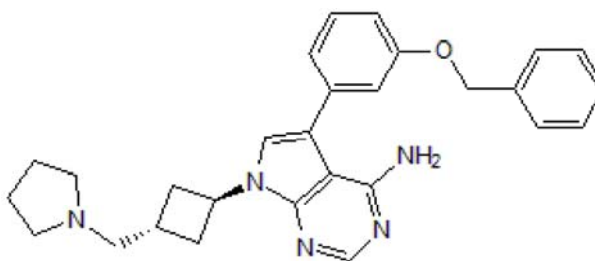
Batch No.: 1

CAS Number: 475488-23-4

IUPAC Name: 5-[3-(Phenylmethoxy)phenyl]-7-[*trans*-3-(1-pyrrolidinylmethyl)cyclobutyl]-7*H*-pyrrolo[2,3-*d*]pyrimidin-4-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₈ H ₃₁ N ₅ O
Batch Molecular Weight:	453.58
Physical Appearance:	Off White solid
Solubility:	DMSO to 50 mM ethanol to 10 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 99.1% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

Microanalysis:	Carbon Hydrogen Nitrogen		
Theoretical	74.14	6.89	15.44
Found	73.94	6.89	15.53

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

NVP ADW 742 is an ATP-competitive inhibitor of IGF1R (IC₅₀ in the range of 0.1-0.2 μM). Also inhibits c-Kit kinase activity (IC₅₀ in the range of 3-5 μM). Exhibits a synergistic effect with Imatinib (Cat. No. 5906), enhancing the sensitivity of multiple small cell lung cancer cell lines to the chemotherapeutics Etoposide (Cat. No. 1226) and Carboplatin (Cat. No. 2626).

Physical and Chemical Properties:

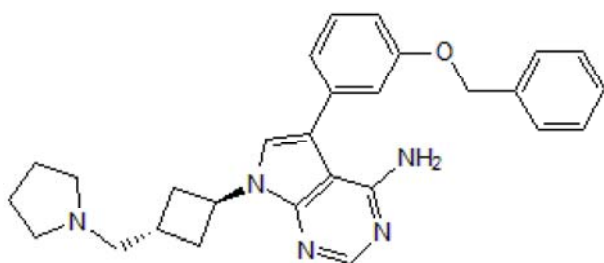
Batch Molecular Formula: C₂₈H₃₁N₅O

Batch Molecular Weight: 453.58

Physical Appearance: Off White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 mM

ethanol to 10 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Zhou et al (2011) The Ins-like growth factor-I receptor kinase inhibitor NVP-ADW742 sensitizes medulloblastoma to the effects of chemotherapy. *Oncol. Rep.* **25** 1565. PMID: 21455580.

Warshamana-Greene et al (2005) The Ins-like growth factor-I receptor kinase inhibitor, NVP-ADW742, sensitizes small cell lung cancer cell lines to the effects of chemotherapy. *Clin.Cancer Res.* **11** 1563. PMID: 15746061 .

Warshamana-Greene et al (2004) The Ins-like growth factor-I (IGF-I) receptor kinase inhibitor NVP-ADW742, in combination with STI571, delineates a spectrum of dependence of small cell lung cancer on IGF-I and stem cell factor signaling. *Mol.Cancer Ther.* **3** 527. PMID: 15141010.

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