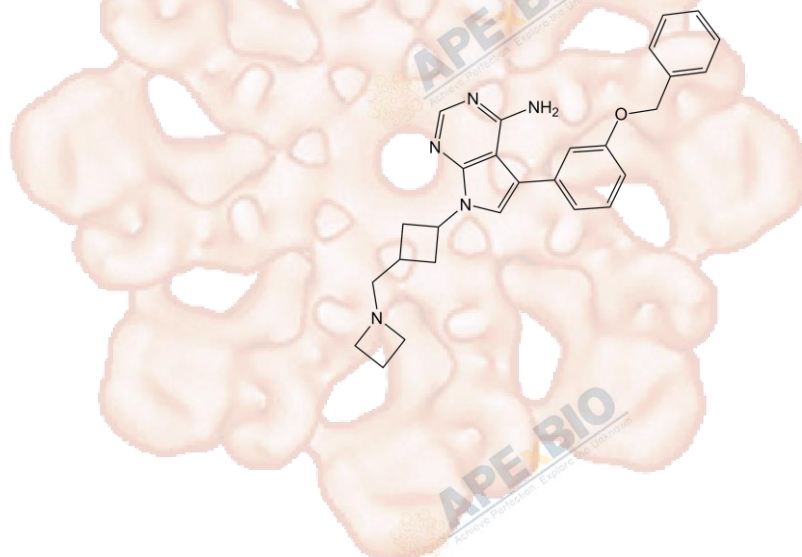


Product Data Sheet

NVP-AEW541

Cat. No.:	A2278
CAS No.:	475489-16-8
Formula:	C ₂₇ H ₂₉ N ₅ O
M.Wt:	439.55
Synonyms:	
Target:	Tyrosine Kinase
Pathway:	IGF1R
Storage:	Store at -20°C



Solvent & Solubility

≥22 mg/mL in DMSO; insoluble in H₂O; ≥17.13 mg/mL in EtOH with ultrasonic

In Vitro

	Solvent	Mass	1mg	5mg	10mg
Preparing Stock Solutions	Concentration				
	1 mM		2.2751 mL	11.3753 mL	22.7505 mL
	5 mM		0.4550 mL	2.2751 mL	4.5501 mL
	10 mM		0.2275 mL	1.1375 mL	2.2751 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

IGF-IR inhibitor, novel, potent and selective

IC₅₀ & Target

0.086 μM (IGF-IR kinase)

In Vitro

Cell Viability Assay

Cell Line:	MCF-7 cells
Preparation method:	The solubility of this compound in DMSO is >10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	~ 10 μM; 72 hrs

	Applications:	In MCF-7 cells, NVP-AEW541 suppressed the IGF-I-mediated survival, soft agar and cell proliferation with IC50 values of 0.162 μ M, 0.105 μ M and 1.64 μ M, respectively.
In Vivo	Animal experiment	
	Animal models:	Female Harlan athymic nude mice with NWT-21 cells
	Dosage form:	20, 30, or 50 mg/kg; p.o.; twice daily, 7 days/week
	Applications:	NVP-AEW541 dose-dependently inhibited tumor growth with T/C values of 32%, 28% and 14% at the doses of 20 mg, 30 mg, or 50 mg, respectively. NVP-AEW541 was well tolerated at the indicated doses, and the recorded variations in body weight were not statistically significant.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. García-Echeverría C, Pearson MA, Marti A, et al. In vivo antitumor activity of NVP-AEW541-A novel, potent, and selective inhibitor of the IGF-IR kinase. Cancer Cell, 2004, 5(3): 231-239.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX[®]BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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