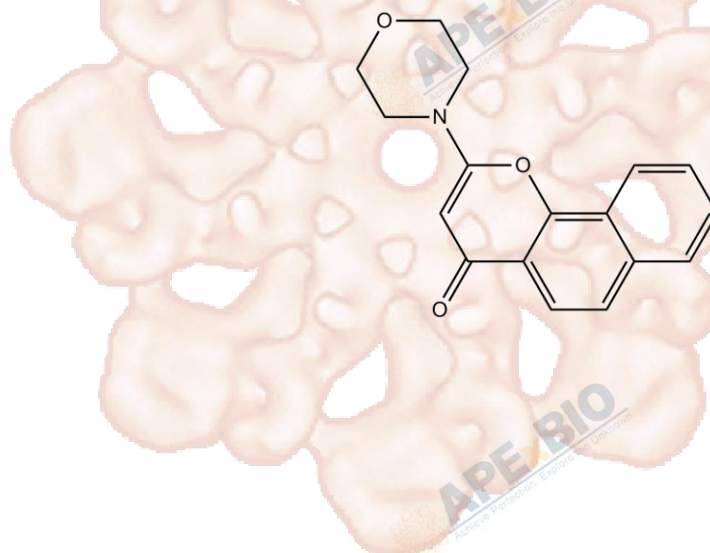


Product Data Sheet

NU 7026

Cat. No.:	A8649
CAS No.:	154447-35-5
Formula:	C ₁₇ H ₁₅ NO ₃
M.Wt:	281.31
Synonyms:	
Target:	PI3K/Akt/mTOR Signaling
Pathway:	DNA-PK
Storage:	Store at -20°C



Solvent & Solubility

insoluble in EtOH; insoluble in DMSO; insoluble in H₂O

In Vitro

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1mg	5mg	10mg
	1 mM		3.5548 mL	17.7740 mL	35.5480 mL
	5 mM		0.7110 mL	3.5548 mL	7.1096 mL
	10 mM		0.3555 mL	1.7774 mL	3.5548 mL

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

Biological Activity

Shortsummary

DNPK inhibitor, ATP-competitive and potent

IC₅₀ & Target

0.23 μM (DNA-PK), 13 μM (PI3K), >100 μM (ATM)

In Vitro

Cell Viability Assay

Cell Line:	CHO cell lines V3 transfected with human DNA-PKcs gene
Preparation method:	The solubility of this compound in DMSO is <2.81mg/mL. 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

	Applications:	NU7026 potentiated ionizing radiation cytotoxicity in exponentially growing DNA-PK proficient cells, which can act as a potent radiosensitizer and shows potential as tools for anticancer therapeutic intervention.
In Vivo	Animal experiment	
	Animal models:	Female BALB/c mice
	Dosage form:	four times per day at 100 mg/kg, i.p.
	Applications:	NU7026 shows a significant radiosensitisation effect in BALB/c mice.
	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] Veuger, S.J., et al., Radiosensitization and DNA repair inhibition by the combined use of novel inhibitors of DNA-dependent protein kinase and poly(ADP-ribose) polymerase-1. *Cancer Res*, 2003. 63(18): p. 6008-15.
- [2] Nutley, B.P., et al., Preclinical pharmacokinetics and metabolism of a novel prototype DNA-PK inhibitor NU7026. *Br J Cancer*, 2005. 93(9): p. 1011-8.

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. Short-term 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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