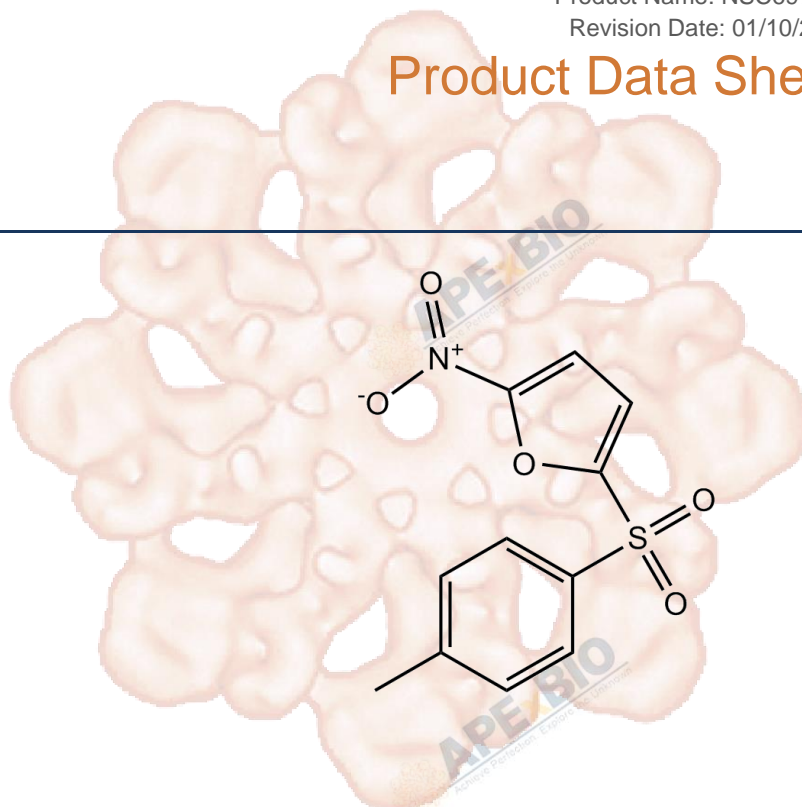


Product Data Sheet

NSC697923

Cat. No.:	A8813
CAS No.:	343351-67-7
Formula:	C ₁₁ H ₉ NO ₅ S
M.Wt:	267.26
Synonyms:	
Target:	Ubiquitination/ Proteasome
Pathway:	E2 conjugating
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; insoluble in EtOH; ≥26 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent	Mass Concentration	Mass		
			1mg	5mg	10mg
		1 mM	3.7417 mL	18.7084 mL	37.4167 mL
		5 mM	0.7483 mL	3.7417 mL	7.4833 mL
		10 mM	0.3742 mL	1.8708 mL	3.7417 mL

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

Biological Activity

Shortsummary

Inhibitor of E2 complex Ubc13-Uev1A, cell permeable and selective

IC₅₀ & Target

Cell Viability Assay

In Vitro

Cell Line:	Human NB cell lines with MYCN amplification (IMR-32, NGP and NB-19) and without (CHLA-255, SK-N-AS and SH-SY5Y)
Preparation method:	The solubility of this compound in DMSO is >10mM. 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:	5µM ;24hours
	Applications:	Treatment with NSC697923 significantly reduced NB cells viability in a dose-dependent manner and inhibited both anchorage-dependent and -independent colony formation of NB cells. NSC697923 induced apoptosis in all NB cell lines tested. In addition, NSC697923 also induced apoptosis in p53 mutant NB cells by activation of JNK-mediated apoptotic pathway. NSC697923 exhibited its effect primarily through inducing p53 nuclear translocation but not increasing its total amount. NSC697923 treatment also induced more phosphorylation of JNK, p38, and ERK in SK-N-AS.
In Vivo	Animal experiment	
	Animal models:	5- to 6-week-old female athymic Ncr nude mice (SH-SY5Y and NGP xenografts)
	Dosage form:	5 mg/kg , intraperitoneal injection everyday for 10 days
	Applications:	These results showed significant tumor regression in NSC697923 treatment group of both SH-SY5Y and NGP xenografts.
	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]. Cheng J, Fan YH, Xu X., et al. A small-molecule inhibitor of UBE2N induces neuroblastoma cell death via activation of p53 and JNK pathways. Cell Death Dis. 2014 Feb 20;5:e1079.

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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