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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

PNC-27 acetate

Cat. No.:	HY-P3508A	
Molecular Formula:	C ₁₈₈ H ₂₉₃ N ₅₃ O ₄₄ S.xC ₂ H ₂ O ₂	
Sequence:	Pro-Pro-Leu-Ser-Gln-Glu-Thr-Phe-Ser-Asp-Leu-Trp-Lys-Leu-Leu-Lys-Lys-Trp-Lys-Met-Arg-Arg-Asn-Gln-Phe-Trp-Val-Lys-Val-Gln-Arg-Gly	Pro-Pro-Leu-Ser-Gln-Glu-Thr-Phe-Ser-Asp-Leu-Trp-Lys-Leu-Leu-Lys-Lys-Trp-Lys-Met-Arg-Arg-Asn-Gln-Phe-Trp-Val-Lys-Val-Gln-Arg-Gly (acetate salt)
Sequence Shortening:	PPLSQETFSDLWKLLKKWKMRRNQFWVKVQRG	
Target:	MDM-2/p53	
Pathway:	Apoptosis	
Storage:	Sealed storage, away from moisture	
	Powder	-80°C 2 years -20°C 1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (Need ultrasonic)
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BIOLOGICAL ACTIVITY

Description PNC-27 acetate, a chimeric p53-penetratin peptide binds to HDM-2 in a p53 peptide-like structure, induces selective membrane-pore formation and leads to cancer cell lysis. PNC-27 acetate is an anticancer peptide. PNC-27 acetate can be used in acute myeloid leukemia research^{[1][2][3]}.

In Vitro PNC-27 (50 µg/mL; 0-3 h) acetate induces cancer cell death^[1].
PNC-27 (50 µg/mL; 15 min) acetate binds to cell membrane-bound HDM-2 in A2058 and MCF-7 cells^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Cell Cytotoxicity Assay^[1]

Cell Line:	MIA-PaCa-2 cells
Concentration:	50 µg/mL
Incubation Time:	0-3 hours
Result:	Induced 100% cell death in 90 min.

In Vivo PNC-27 (intraperitoneal injection; 40 mg/kg; once daily; 2-3 w) acetate shows anti-leukemia activity in mice^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	MI ^{[PTD/WT]/FIt3^{TD/ITD} AML mice^[2]}
Dosage:	40 mg/kg

Administration:	Intraperitoneal injection; 40 mg/kg; once daily; 2 or 3 weeks
Result:	Reduced AML engraftment and prolonged survival.

REFERENCES

- [1]. Ehsan Sarafraz-Yazdi, et al. PNC-27, a Chimeric p53-Penetratin Peptide Binds to HDM-2 in a p53 Peptide-like Structure, Induces Selective Membrane-Pore Formation and Leads to Cancer Cell Lysis. *Biomedicines*. 2022 Apr 20;10(5):945.
- [2]. Sarafraz-Yazdi E, et al. Anticancer peptide PNC-27 adopts an HDM-2-binding conformation and kills cancer cells by binding to HDM-2 in their membranes. *Proc Natl Acad Sci U S A*. 2010 Feb 2;107(5):1918-23.
- [3]. Wang H, et al. Targeting cell membrane HDM2: A novel therapeutic approach for acute myeloid leukemia. *Leukemia*. 2020 Jan;34(1):75-86.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA