



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

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) 

SAP15

Cat. No.:	HY-P10462
CAS No.:	1403753-45-6
Molecular Formula:	C ₆₈ H ₁₃₁ N ₃₁ O ₁₈ S ₃
Molecular Weight:	1767.16
Sequence:	Gly-Lys-Cys-Ser-Thr-Arg-Gly-Arg-Lys-Cys-Cys-Arg-Arg-Lys-Lys
Sequence Shortening:	GKCSTRGRKCCRKK
Target:	HDAC; NF-κB
Pathway:	Cell Cycle/DNA Damage; Epigenetics; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

SAP15 (Synthetic anti-inflammatory peptide 15) is a synthetic anti-inflammatory peptide consisting of 15 amino acids designed from human beta-defensin 3. SAP15 has the ability to penetrate cells and is able to induce downregulation of intracellular inflammation. SAP15 inhibits inflammation by inhibiting the phosphorylation of HDAC5 and thereby reducing the phosphorylation of NF-κB p65. In LPS-induced macrophages, SAP15 inhibits HDAC5 and NF-κB p65 phosphorylation. In addition, SAP15 treatment increased the expression of aggrecan and type II collagen and decreased the expression of osteocalcin in LPS-induced chondrocytes. SAP15 can be used in the study of inflammation regulation and anti-inflammatory therapy of biomaterials^[1].

REFERENCES

[1]. Lee J Y, et al. Engineered synthetic cell penetrating peptide with intracellular anti-inflammatory bioactivity: An in vitro and in vivo study[J]. Journal of Biomedical Materials Research Part A, 2021, 109(10): 2001-2016.

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