



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
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](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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

## d-(KLAKLAK)<sub>2</sub>, Proapoptotic Peptide

Cat. No.:	HY-P10370
CAS No.:	721397-24-6
Molecular Formula:	C <sub>72</sub> H <sub>139</sub> N <sub>21</sub> O <sub>14</sub>
Molecular Weight:	1523.01
Sequence:	{d-(Lys-Leu-Ala-Lys-Leu-Ala-Lys-Lys-Leu-Ala-Lys-Leu-Ala-Lys)}-NH <sub>2</sub>
Sequence Shortening:	{d-(KLAKLAKKLAKLAK)}-NH <sub>2</sub>
Target:	Bacterial; Apoptosis
Pathway:	Anti-infection; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

#### Description

d-(KLAKLAK)<sub>2</sub>, as an antibacterial and anti-tumor polypeptide, is a representative of the antimicrobial peptide group, and also has good anticancer properties. d-(KLAKLAK)<sub>2</sub> is able to kill bacteria by damaging their cell membranes, causing cell contents to leak out. d-(KLAKLAK)<sub>2</sub> can also inhibit tumor cell proliferation by causing mitochondrial swelling and mitochondrial membrane destruction, triggering apoptosis (programmed cell death)<sup>[1]</sup>.

### REFERENCES

[1]. Jaber S, et al. Synthesis, antitumor and antibacterial studies of new shortened analogues of (KLAKLAK)<sub>2</sub>-NH<sub>2</sub> and their conjugates containing unnatural amino acids[J]. *Molecules*, 2021, 26(4): 898.

**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