Product Data Sheet

Proteins

Inhibitors



Tumor targeted pro-apoptotic peptide

Cat. No.: HY-P3707 CAS No.: 1926163-30-5 Molecular Formula: $C_{94}H_{174}N_{32}O_{22}S_{2}$

Molecular Weight: 2168.72

Sequence Shortening: CNGRCGGKLAKLAKKLAKLAK-NH2 (Disulfide bridge:Cys1-Cys5)

Target: **Apoptosis** Pathway: **Apoptosis**

Please store the product under the recommended conditions in the Certificate of Storage:

Analysis.

BIOLOGICAL ACTIVITY

Description	Tumor targeted pro-apoptotic peptide (CNGRC-GG-D(KLAKLAK)2) is an anti-tumor peptide. Tumor targeted pro-apoptotic
	peptide disrupts mitochondrial membranes and promotes apoptosis, showing anticancer activity in mice $^{[1]}$.

In Vitro

Tumor targeted pro-apoptotic peptide (10 µM; 0-20 min) induces mitochondrial swelling in DMECs^[1]. Tumor targeted pro-apoptotic peptide (100 μ M; 72 h) induces apoptosis in DMECs^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay^[1]

Cell Line:	DMECs
Concentration:	10 μΜ
Incubation Time:	0-20 min
Result:	Induced considerable mitochondrial swelling at a concentration of 10 $\mu\text{M},$ and mild swelling was evident even at 3 $\mu\text{M}.$

Apoptosis Analysis^[1]

Cell Line:	DMECs
Concentration:	100 μΜ
Incubation Time:	72 h
Result:	Showed the classic morphological indicators of apoptosis, including nuclear condensation and fragmentation.

In Vivo

Tumor targeted pro-apoptotic peptide inhibits both primary tumor growth and metastasis in $mice^{[1]}$. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Tumor targeted pro-apoptotic peptide (250 μg/mice; tail vein injection; 250 μg a week for
	17 weeks) inhibits both primary tumor growth and metastasis in $mice^{[1]}$.

Dosage:	250 μg/mice
Administration:	Tail vein injection; 250 μg a week for 17 weeks
Result:	Exhibited antitumor activity in vivo.

REFERENCES

[1]. Ellerby HM, et al. Anti-cancer activity of targeted pro-apoptotic peptides. Nat Med. 1999 Sep;5(9):1032-8.

Caution: Product has not been fully validated for medical applications. For research use only.

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