

## Cecropin A

## Chemical Properties

CAS No. :	80451-04-3
Formula:	C184H313N53O46
Molecular Weight:	4003.78
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

KWKLFKKIEKVGQNIIRDGIKAGPAVAIVGQATQIAK-NH<sub>2</sub>

## Biological Description

Description	Cecropin A, a linear 37-residue antimicrobial polypeptide produced by the cecropia moth, has exhibited cytotoxicity in various human cancer cell lines and inhibitory effects on tumor growth.
Targets(IC50)	Antibacterial,Antibiotic
In vitro	Treatment of cells with cecropin A was characterized by loss of viability in a dose-dependent manner, lactate dehydrogenase (LDH) leakage, and modest attenuation of lysosomal integrity measured by neutral red assay. An increase of reactive oxygen species (ROS) generation, DNA fragmentation, and phosphatidylserine externalization were quantified following cecropin A exposure at a concentration of 30 microM, whereas cecropin A-induced apoptosis was independent of caspase family members[1].

## Solubility Information

Solubility	1M HCl: 12 mg/mL (3 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2498 mL	1.2488 mL	2.4976 mL
5 mM	0.050 mL	0.2498 mL	0.4995 mL
10 mM	0.025 mL	0.1249 mL	0.2498 mL
50 mM	0.005 mL	0.025 mL	0.050 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Cerón JM, et al. The antimicrobial peptide cecropin A induces caspase-independent cell death in human promyelocytic leukemia cells. *Peptides*. 2010 Aug;31(8):1494-503.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481