

Product data sheet



MedKoo Cat#: 597612 Name: Small cardioactive peptide A CAS#: 98035-79-1 Chemical Formula: C ₅₉ H ₉₂ N ₁₈ O ₁₂ S Exact Mass: 1276.6863 Molecular Weight: 1277.55		
Product supplied as:		Powder
Purity (by HPLC):		≥ 98%
Shipping conditions		Ambient temperature
Storage conditions:		Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.

1. Product description:

Small cardioactive peptide A is a neuropeptide that modulates neuromuscular synapsis in Aplysia. It also functions as neural cotransmitter in molluscs and exert a role in both the central and peripheral modulation of the control of feeding behavior.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
To be determined	To be determined	To be determined

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	0.78 mL	3.91 mL	7.83 mL
5 mM	0.16 mL	0.78 mL	1.57 mL
10 mM	0.08 mL	0.39 mL	0.78 mL
50 mM	0.02 mL	0.08 mL	0.16 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

1. Mahon AC, Lloyd PE, Weiss KR, Kupfermann I, Scheller RH. The small cardioactive peptides A and B of Aplysia are derived from a common precursor molecule. Proc Natl Acad Sci U S A. 1985 Jun;82(11):3925-9. doi: 10.1073/pnas.82.11.3925. PMID: 3858852; PMCID: PMC397902.

In vivo study

To be determined

7. Bioactivity

Biological target:

SM-7368 targets downstream of MAPK p38 activation and inhibits TNF- α -induced MMP-9 upregulation.

In vitro activity

The amino acid sequences for small cardioactive peptide B and a related peptide, small cardioactive peptide A, are present and flanked by known proteolytic processing sites.

Reference: Proc Natl Acad Sci U S A. 1985 Jun;82(11):3925-9. <https://pubmed.ncbi.nlm.nih.gov/3858852/>

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In vivo activity

To be determined

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.