

CNP-53 Active Peptide

CNP-53

CATALOG #
AAA60578

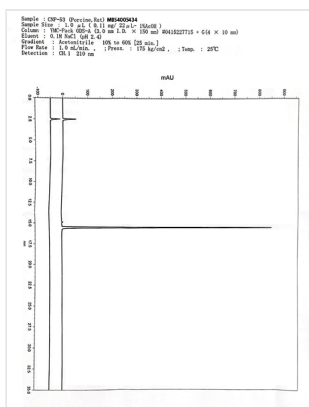
PRODUCT SYNONYMS

CNP-53; CNP-53 active peptide

PRODUCT SPECIFICATIONS

Formula	C ₂₅₁ H ₄₁₄ N ₈₂ O ₇₀ S ₃
Appearance	White amorphous powder
Elemental Analysis	Found C, 46.53; H, 7.54; N, 16.57 %
Mass Spectral Analysis	Exhibits correct MW
Preparation and Storage	Store at -20°C.

IMAGES



Acid Hydrolysis: 6M HCl with thioglycolic acid, 110°C, 22h.

Asp (5) 4.97	Thr (1) 0.95	Ser (4) 3.26	Glu (1) 1.02
Pro (1) 0.94	Gly (8) 7.90	Ala (4) 3.95	Cys (2) 1.75
Val (1) 0.99	Met (1) 0.99	Ile (1) 0.96	Leu (7) 7.01
Tyr (1) 1.00	Phe (1) 1.01	Lys (7) 6.84	NH ₃ (2) 2.89
His (2) 1.98	Trp (1) 0.89	Arg (5) 5.00	

Application Data

Amino Acid Analysis

Application Data

$[\alpha]_D^{20}$ -67.4 ° (c* 0.11, 1% AcOH)
* c value was calculated from the net peptide weight.

Application Data

Specific Optical Rotation

CNP-53 (Porcine, Rat)
Asp-Leu-Arg-Val-Asp-Thr-Lys-Ser-Arg-Ala-Ala-Trp-Ala-Arg-
Leu-Leu-His-Glu-His-Pro-Asn-Ala-Arg-Lys-Tyr-Lys-Gly-Gly-
Asn-Lys-Lys-Gly-Leu-Ser-Lys-Gly-Cys-Phe-Gly-Leu-Lys-Leu-
Asp-Arg-Ile-Gly-Ser-Met-Ser-Gly-Leu-Gly-Cys

Application Data

Compound

ADDITIONAL INFORMATION

Related Product Information for CNP-53 active peptide	C-Type Natriuretic Peptide-53 (Porcine, Rat) Asp-Leu-Arg-Val-Asp-Thr-Lys-Ser-Arg-Ala-Ala-Trp-Ala-Arg-Leu-Leu-His-Glu-His-Pro-Asn-Ala-Arg-Lys-Tyr-Lys-Gly-Gly-Asn-Lys-Lys-Gly-Leu-Ser-Lys-Gly-Cys-Phe-Gly-Leu-Lys-Leu-Asp-Arg-Ile-Gly-Ser-Met-Ser-Gly-Leu-Gly-Cys (Disulfide bond between Cys37-Cys53) (M.W. 5796.7) C251H414N82O70S3 N. Minamino, K. Kangawa, and H. Matsuo, Biochem. Biophys. Res. Commun., 170, 973 (1990). (Original; Porcine) Y. Tawaragi, K. Fuchimura, H. Nakazato, S. Tanaka, N. Minamino, K. Kangawa, and H. Matsuo, Biochem. Bipophys. Res. Commun., 172, 627 (1990). (Original; Porcine Nucleotide Seq.) M. Kojima, N. Minamino, K. Kangawa, and H. Matsuo, FEBS Lett., 276, 209 (1990). (Original; Rat cDNA) A. Rosenzweig and C.E. Seidman, Annu. Rev. Biochem., 60, 229 (1991). (Review) * The biological activity of these peptides is examined by the Division of Pharmacology, Peptide Institute, Inc.
Product Categories/Family for CNP-53 active peptide	Biologically Active Peptide

NCBI AND UNIPROT INFORMATION

Molecular Weight	5796.68
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/active-peptide/cnp-53/60578>