ALPHA DIAGNOSTIC INTERNATIONAL

Product Data Sheet

Cat# **SP-55260-5**

Description: NAP [H-Asn-Ala-Pro-Val-Ser-Ile-Pro-Gln-OH; MW 824.94]

Size: 0.5 mg

Purity: >95%

Store: Desiccated at -20oC.

NAP (Asn-Ala-Pro-Val-Ser-Ile-Pro-Gln, single amino acid letter code, NAPVSIPQ), an eight amino acid neuroprotective peptide derived from activity-dependent neuroprotective protein (ADNP), exhibits some structural similarity to activity-dependent neurotropic factor-9 (ADNF-9; Ser-Alal-Leu-Leu-Arg-Ser-Ile-Pro-Ala, SALLRSIPA). Both peptides are also active in the all D-amino acid conformation, termed D-NAP and D-SAL. Original results utilizing affinity chromatography coupled to mass spectrometry identified tubulin, the subunit protein of microtubules, as the major NAP-associating protein in brain. The NAP-tubulin association was found to be diminished in the presence of ADNF-9, D-NAP, and D-SAL, suggesting a common target of neuroprotection. The β amyloid peptide interacts with microtubules, and previous studies have demonstrated protection against β amyloid (25–35) toxicity by NAP and ADNF-9. NAP also inhibits β amyloid (25–35 and 1–40) aggregation.

References: Gozes I (2008) Biomed. Central 9, S3; Bassan M (1999) J. Neurochem. 72, 1283-1293; Pinhasov A (2003) Brain Red. Dev. Brain Res. 144, 83-90; Brennenman DE (1996) J. Clin. Invest. 97, 2299-2307

Related Items

Catalog# ProdDescription

SP-101559-1 β-Amyloid (1-39) [Asp-Ala-Glu-Phe-Arg-His-Asp-Ser-Gly-Tyr-Glu-Val-His-His-Gln-Lys-Leu-Val-Phe-Phe-Ala-Glu-Asp-Val-Gly-Ser-Asn-Lys-Gly-Ala-Ile-Ile-Gly-Leu-Met-Val-Gly-Gly-Val (MW: 1918.3)]

SP-51106-1 Amyloid (25-35) peptide [H-Gly-Ser-Asn-Lys-Gly-Ala-Ile-Ile-Gly-Leu-Met-Oh; MW: 1060.3]

SP-51516 Amyloid(1-40), UltraPure, TFA [H-Asp-Ala-Glu-Phe-Arg-His-Asp-Ser-Gly-Tyr-Gly-Val-His-His-Gln-Lys-Leu-Val-Phe-Phe0Ala-Glu-Asp-Val-Gly-Ser-Asn-Lys-Gly-Ala-Ile-Ile-Gly-Leu-Met-Val-Gly-Gly-Val-Val-OH; MW: 4329.9]

SP-52487-1 Amyloid (1-42), Human [H-Asp-Ala-Glu-Phe-Arg-His-Asp-Ser-Gly-Tyr-Glu-Val-His-His-Gln-Lyn-Leu-Val-Phe-Phe-Ala-Glu-Asp-Val-Gly-Ser-Asn-Lys-Gly-Ala-Ile-Ile-Gly-Leu-Met-Val-Gly-Gly-Val-Val-Ile-Ala-OH; MW: 514.14]

SP-53768-1 β- Amyloid (2-40) [Ala-Glu-Phe-Arg-His-Asp-Ser-Gly-Tyr-Glu-Val-His-His-Gln-Lys-Leu-Val-Phe-Phe-Ala-Glu-Asp-Val-Gly-Ser-Asn-Lys-Gly-Ala-Ile-Ile-Gly-Leu-Met-Val-Gly-Gly-Val-Val (MW: 4214.81)]

SP-53770-1 Amyloid (1-40), Rat [H-Asp-Ala-Glu-Phe-Gly-His-Asp-Ser-Gly-Phe-Gly-Val-Arg-His-Gin-Lys-Leu-Val-Phe-Phe-Ala-Glu-Asp-Val-Gly-Ser-Asn-Lys-Gly-Ala-Ile-Ile-Gly-Leu-Met-Val-Gly-Gly-Val-Val-OH; MW: 4233.81]

SP-53771-1 Amyloid Peptide(1-42), Rat [H-Asp-Ala-Gly-Phe-Gly-His-Asp-Ser-Gly-Phe-Gly-Val-Arg-His-Gln-Lys-Leu-Val-Phe-Phe-Ala-Gly-Asp-Val-Gly-Ser-Asn-Lys-Gly-Ala-Ile-Ile-Gly-Leu-Met-Val-Gly-Gly-Val-Val-Ile-Ala-OH; MW: 4418.05]

SP-53819-1 Amyloid β-Protein (42-1) (AA: Ala-Ile-Val-Val-Gly-Gly-Val-Met-Leu-Gly-Ile-Ile-Ala-Gly-Lys-Asn-Ser-Gly-Val-Asp-Glu-Ala-Phe-Phe-Val-Leu-Lys-Gln-His-His-Val-Glu-Tyr-Gly-Ser-Asp-His-Arg-Phe-Glu-Ala-Asp) (MW: 4514.14)

SP-54833-1 β-Amyloid(40-1) [Val-Val-Gly-Gly-Val-Met-Leu-Gly-Ile-Ile-Ala-Gly-Lys-Asn-Ser-Gly-Val-Asp-Glu-Ala-Phe-Phe-Val-Leu-Lys-Gln-His-His-Val-Glu-Tyr-Gly-Ser-Asp-His-Arg-Phe-Glu-Ala-Asp (MW: 4329.90)]

SP-56317-1 Biotin-Amyloid β-Protein (1-40) (AA: Biotin-Asp-Ala-Glu-Phe-Arg-His-Asp-Ser-Gly-Tyr-Glu-Val-His-His-Gln-Lys-Leu-Val-Phe-Phe-Ala-Glu-Asp-Val-Gly-Ser-Asn-Lys-Gly-Ala-Ile-Ile-Gly-Leu-Met-Val-Gly-Gly-Val-Val) (MW: 4556.20)

SP-57116-1 β-Amyloid (1-49) [Asp-Ala-Glu-Phe-Arg-His-Asp-Ser-Gly-Tyr-Glu-Val-His-His-Gln-Lys-Leu-Val-Phe-Phe-Ala-Glu-Asp-Val-Gly-Ser-Asn-Lys-Gly-Ala-Ile-Ile-Gly-Leu-Met-Val-Gly-Gly-Val-Val-Ile-Ala-Thr-Val-Ile-Val-Ile-Thr-Leu (MW: 5254.10)]

SP-58345-5 β-Amyloid (10-20) [Tyr-Glu-Val-His-His-Gln-Lys-Leu-Val-Phe-Phe (MW: 1446.68)]

SP-58584-5 β-Amyloid (16-20) [Lys-Leu-Val-Phe-Phe (MW: 652.84)]

SP-58585-5 β-Amyloid (15-21) [Gln-Lys-Leu-Val-Phe-Phe-Ala (MW: 852.05)]

SP-62497-1 Amyloid β-Protein (29-40) (AA: Gly-Ala-Ile-Ile-Gly-Leu-Met-Val-Gly-Gly-Val-Val) (MW: 1085.38)

SP-66297-5 β-Amyloid (12-20) [Val-His-His-Gln-Lys-Leu-Val-Phe-Phe (MW: 1154.39)]

SP-67855-5 [Pro18, Asp21] β - Amyloid (17 - 21), iAb5 [Leu-Pro-Phe-Phe-Asp; MW 637.74]

SP-68935-1 β-Amyloid (1-28) [Asp-Ala-Glu-Phe-Arg-His-Asp-Ser-Gly-Tyr-Glu-Val-His-His-Gln-Lys-Leu-Val-Phe-Phe-Ala-Glu-Asp-Val-Gly-Ser-Asn-Lys (MW: 3262.53)]

SP-70134-1 β- Amyloid (1-16) [Asp-Ala-Glu-Phe-Arg-His-Asp-Ser-Gly-Tyr-Glu-Val-His-His-Gln-Lys (MW: 1955.05)]

SP-71896-5 β-Amyloid (1-15) [Asp-Ala-Glu-Phe-Arg-His-Asp-Ser-Gly-Tyr-Glu-Val-His-His-Gln (MW: 1826.87)]

SP-71897-1 Amyloid β-Protein (6-20) (AA: His-Asp-Ser-Gly-Tyr-Glu-Val-His-His-Gln-Lys-Leu-Val-Phe-Phe) (MW: 1843.05)

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