

Cat#SP-102039-5

Ac-MBP (4-14) Peptide

5 mg

Description:

Myelin basic protein (MBP) is a protein believed to be important in the process of myelination of nerves in the nervous system. The protein encoded by the classic MBP gene is a major constituent of the myelin sheath of oligodendrocytes and Schwann cells in the nervous system. The myelin sheath is a multi-layered membrane, unique to the nervous system, that functions as an insulator to greatly increase the velocity of axonal impulse conduction. MBP maintain the correct structure of myelin, interacting with the lipids in the myelin membrane. MBP-related transcripts are also present in the bone marrow and the immune system

Interest in MBP has centered on its role in demyelinating diseases, in particular, multiple sclerosis (MS). Several studies have shown a role for antibodies against MBP in the pathogenesis of MS.[8] Some studies have linked a genetic predisposition to MS to the MBP gene. Myelin basic protein has also been shown to interact with Proteolipid protein 1.

Sources of Peptide

Cat # SP-102039-5
Sequence: Ac-Gln-Lys-Arg-Pro-Ser-Gln-Arg-Ser-Lys-Tyr-Leu
MW: 1432.7
Purity: >95%

After reconstitution in water, store solution in small aliquots at -20°C for 3-6 months. Do not freeze and thaw or store diluted solutions.

Storage: Store powder at -20°C for up to 6 months.

Stability: 6-12 months at -20°C or below.

Shipping: 4°C for solutions and room temp for powder

General references

Berger T N. *Engl. (2003) J. Med.* 349 (2): 139–45;

Related items:

Catalog#	ProdDescription
SP-101470-5	Biotin-MBP Derivatized Peptide (MW: 2252.73)
SP-51916-1	MBP (1-11) peptide [Ac-Ala-Ser-Gln-Lys-Arg-Pro-Ser-Gln-Arg-His-Gly-OH MW 1293.42]
SP-52278-1	MBP (87-99) human, Myelin Basic Protein (87-99) Guinea pig, human [H-Val-His-Phe-Phe-Lys-Asn-Ile-Val-Thr-Pro-Arg-Thr-Pro-OH MW 1555.86]
SP-52279-1	MBP (68-82), guinea pig; Myelin Basic Protein (68-82) [H-Tyr-Gly-Ser-Leu-Pro-Gln-Lys-Ser-Gln-Arg-Ser-Gln-Asp-Glu-Asn-OH; MW 1736.8]
SP-54831-5	MBP (1 - 11), mouse (AA: Ac-Ala-Ser-Gln-Lys-Arg-Pro-Ser-Gln-Arg-Ser-Lys) (MW: 1314.48)
SP-64991-5	MBP MAPK Substrate (AA: Ala-Pro-Arg-Thr-Pro-Gly-Gly-Arg-Arg) (MW: 967.11)
SP-88007-5	[Ala4]-MBP (1-11) [Ac-Ala-Ser-Gln-Ala-Arg-Pro-Ser-Gln-Arg-His-Gly; MW: 1236.32]
SP-88008-5	[Ala81]-MBP (74-85) [Gln-Lys-Ser-Gln-Arg-Ser-Gln-Ala-Glu-Asn-Pro-Val; MW: 1371.48]
SP-88009-5	[Arg91, Ala96] - MBP (87 - 99), human [Val-His-Phe-Phe-Arg-Asn-Ile-Val-Thr-Ala-Arg-Thr-Pro; MW: 1557.83]
SP-88010-5	[Pyr4] - MBP (4 - 14) [Pyr-Lys-Arg-Pro-Ser-Gln-Arg-Ser-Lys-Tyr-Leu; MW 1391.61]
SP-88011-5	[Tyr4] - MBP (1 - 11) [Ac-Ala-Ser-Gln-Tyr-Arg-Pro-Ser-Gln-Arg-His-Gly; MW 1328.42]
SP-88012-5	Biotin-MBP(94 - 102) (AA: Biotin -Ala-Pro-Arg-Thr-Pro-Gly-Gly-Arg-Arg) (MW: 1193.41)
SP-88013-5	Biotin-Phosphorylated MBP (94 - 102) (AA: Biotin-Ala-Pro-Arg-Thr(PO3H2)-Pro-Gly-Gly-Arg-Arg) (MW: 1273.41)
SP-88014-1	MBP (1 - 17) (AA: Ala-Ser-Gln-Lys-Arg-Pro-Ser-Gln-Arg-Ser-Lys-Tyr-Leu-Ala-Thr-Ala-Ser) (MW: 1879.12)
SP-88015-5	MBP (74 - 85), guinea pig (AA: Gln-Lys-Ser-Gln-Arg-Ser-Gln-Asp-Glu-Asn-Pro-Val) (MW: 1415.49)
SP-88016-1	MBP (90-106) (AA: Ac-Phe-Phe-Lys-Asn-Ile-Val-Thr-Pro-Arg-Thr-Pro-Pro-Ser-Gln-Gly-Lys-NH2) (MW: 1955.31)
SP-88017-1	MBP (90-106), phosphorylated (AA: Phe-Phe-Lys-Asn-Ile-Val-Thr-Pro-Arg-Thr(PO3H2)-Pro-Pro-Pro-Ser-Gln-Gly-Lys-NH2) (MW: 1913.27)

SP-102039-5 rev.131209P