

Myelin Basic Protein

Cat. No.:	HY-P1821
CAS No.:	126768-94-3
Molecular Formula:	C ₆₀ H ₁₀₃ N ₂₁ O ₁₇
Molecular Weight:	1390.59
Sequence:	Gln-Lys-Arg-Pro-Ser-Gln-Arg-Ser-Lys-Tyr-Leu
Sequence Shortening:	QKRPSQRSKYL
Target:	PKC
Pathway:	Epigenetics; TGF-beta/Smad
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Myelin Basic Protein (MHP4-14), a synthetic peptide comprising residues 4-14 of myelin basic protein, is a very selective PKC substrate ($K_m=7 \mu\text{M}$). Myelin Basic Protein is not phosphorylated by cyclic AMP-dependent protein kinase, casein kinases I and II, Ca^{2+} /calmodulin-dependent protein kinase II, or phosphorylase kinase, and can be routinely used for the assay of protein kinase C with low background in the crude tissue extracts ^{[1][2]} .
In Vitro	Once MBP4-14 is phosphorylated, it is not dephosphorylated by okadaic acid-sensitive phosphatases (protein phosphatases 1, 2A and 3) or other protein phosphatases such as calcineurin and/or PP 2C present in hippocampal homogenates. Therefore, MBP4-14 can be used for PKC assay in crude extracts of neural tissue ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Autophagy. 2020 Oct;16(10):1823-1837.

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REFERENCES

- [1]. Farrar YJ, et al. A phosphatase resistant substrate for the assay of protein kinase C in crude tissue extracts. *Biochem Biophys Res Commun.* 1991;180(2):694-701.
- [2]. Yasuda I, et al. A synthetic peptide substrate for selective assay of protein kinase C. *Biochem Biophys Res Commun.* 1990;166(3):1220-1227.

Caution: Product has not been fully validated for medical applications. For research use only.

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