

Data Sheet

Product Name:	Myelin Basic Protein (TFA)	
Cat. No.:	CS-0254928	
Molecular Formula:	C ₆₂ H ₁₀₄ F ₃ N ₂₁ O ₁₉	
Molecular Weight:	1504.61	
Target:	PKC	QKRPSQRSKYL (TFA salt)
Pathway:	Epigenetics; TGF-beta/Smad	
Solubility:	H ₂ O : 100 mg/mL (66.46 mM; Need ultrasonic)	

BIOLOGICAL ACTIVITY:

Myelin Basic Protein (MHP4-14) TFA, 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 TFA is not phosphorylated by cyclic AMP-dependent protein kinase, casein kinases I and II, Ca²⁺/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^[1].

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.

CAIndexNames:

L-Leucine, L-glutamyl-L-lysyl-L-arginyl-L-prolyl-L-seryl-L-glutamyl-L-arginyl-L-seryl-L-lysyl-L-tyrosyl- (TFA)

SMILES:

[QKRPSQRSKYL (TFA salt)]

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

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