OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for PH300710

Myelin Basic Protein (MBP) (NM_001025090) Human Mass Spec Standard

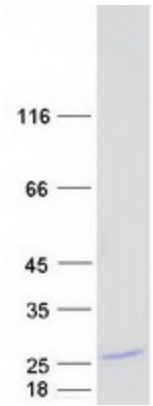
Product data:

Product Type:	Mass Spec Standards
Description:	MBP MS Standard C13 and N15-labeled recombinant protein (NP_001020261)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200710
Predicted MW:	18.6 kDa
Protein Sequence:	>RC200710 protein sequence Red=Cloning site Green=Tags(s) MASQKRPSQRHGSKYLATASTMDHARHGFLPRHRDTGILDSIGRFFGGDRGAPKRGSGKDSHHPARTAHY GSLPQKSHGRTQDENPVVHFFKNIVTPRTPPPSQGKGRGLSLSRFSWGAEGQRPGFGYGGRASDYKSAHK GFKGVDAQGTLSKIFKLGGRDSRSGSPMARR TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001020261
RefSeq Size:	2222
RefSeq ORF:	513
Locus ID:	4155
UniProt ID:	P02686
Cytogenetics:	18q23

View online »

Summary: 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. However, MBP-related transcripts are also present in the bone marrow and the immune system. These mRNAs arise from the long MBP gene (otherwise called "Golli-MBP") that contains 3 additional exons located upstream of the classic MBP exons. Alternative splicing from the Golli and the MBP transcription start sites gives rise to 2 sets of MBP-related transcripts and gene products. The Golli mRNAs contain 3 exons unique to Golli-MBP, spliced in-frame to 1 or more MBP exons. They encode hybrid proteins that have N-terminal Golli aa sequence linked to MBP aa sequence. The second family of transcripts contain only MBP exons and produce the well characterized myelin basic proteins. This complex gene structure is conserved among species suggesting that the MBP transcription unit is an integral part of the Golli transcription unit and that this arrangement is important for the function and/or regulation of these genes. [provided by RefSeq, Jul 2008]

Product images:



Coomassie blue staining of purified MBP protein (Cat# [TP300710]). The protein was produced from HEK293T cells transfected with MBP cDNA clone (Cat# [RC200710]) using MegaTran 2.0 (Cat# [TT210002]).