

Recombinant Human MPZ protein, His-tagged

Cat. No. MPZ-8493H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MPZ(Ile30-Arg153) fused with His tag at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	Ile30-Arg153
Description	Myelin Protein P0 (MPZ) is a single-pass type I membrane glycoprotein which belongs to the myelin P0 protein family. MPZ contains one Ig-like V-type (immunoglobulin-like) domain, absent in the central nervous system. MPZ is a major component of the myelin sheath in peripheral nerves. It is postulated that MPZ is a structural element in the formation and stabilisation of peripheral nerve myelin, holding its characteristic coil structure together by the interaction of its positively-charged domain with acidic lipids in the cytoplasmic face of the opposed bilayer, and by interaction between hydrophobic globular of adjacent extracellular domains. Defects in MPZ associated with Charcot-Marie-Tooth disease and Dejerine-Sottas disease.
Form	Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.2.
AA Sequence	IVVYTDREVHGAVGSRVTLHCSFWSSEWVSDDISFTWRYQPEGGRDAISIFHYAKG QPYIDEVGT FKERIQWVGDPRWKDGSIHNLDSYDNGTFTCDVKNPPDIVGKTSQ VTLYVFEKVPTRVDHHHH HH

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Endotoxin	Less than 0.1 ng/g (1 IEU/g) as determined by LAL test.
Purity	Greater than 95% as determined by reducing SDS-PAGE.
Storage	Lyophilized protein should be stored at < -20 centigrade, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days. Aliquots of reconstituted samples are stable at < -20 centigrade for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH₂O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	MPZ myelin protein zero [Homo sapiens]
Official Symbol	MPZ
Synonyms	MPZ; myelin protein zero; Charcot Marie Tooth neuropathy 1B , CMT1, CMT1B; myelin protein P0; HMSNIB; myelin peripheral protein; Charcot-Marie-Tooth neuropathy 1B; P0; CHM; DSS; MPP; CMT1; CMT1B; CMT2I; CMT2J; CMT4E; CMTDI3;
Gene ID	4359
mRNA Refseq	NM_000530

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Protein Refseq	NP_000521
MIM	159440
UniProt ID	P25189
Chromosome Location	1q22
Pathway	Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem;
Function	structural molecule activity;
	