Recombinant Human MPZ protein, MYC/DDK-tagged

Cat. No. MPZ-3902H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MPZ fused with MYC/DDK tag at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
Description	This gene is specifically expressed in Schwann cells of the peripheral nervous system and encodes a type I transmembrane glycoprotein that is a major structural protein of the peripheral myelin sheath. The encoded protein contains a large hydrophobic extracellular domain and a smaller basic intracellular domain, which are essential for the formation and stabilization of the multilamellar structure of the compact myelin. Mutations in this gene are associated with autosomal dominant form of Charcot-Marie-Tooth disease type 1 (CMT1B) and other polyneuropathies, such as Dejerine-Sottas syndrome (DSS) and congenital hypomyelinating neuropathy (CHN). A recent study showed that two isoforms are produced from the same mRNA by use of alternative in-frame translation termination codons via a stop codon readthrough mechanism.
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	28.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Concentration	>50 ug/mL as determined by microplate BCA method

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
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;

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