

Product datasheet for **TP302450**

Myelin Protein Zero (MPZ) (NM_000530) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human myelin protein zero (MPZ), 20 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC202450 protein sequence
Red=Cloning site Green=Tags(s)

MLRAPAPAPAMAPGAPSSSPILAVLLFSSLVLSPAQAIVVYTDREVHGAVGSRVTLHCSFWSSEWVSD
DISFTWRYQPEGGRDAISIFHYAKGQPYIDEVGTFKERIQWVGDPRWKDGSIHNLDYSDNGTFTCDVK
NPPDIVGKTSQVTLYVFEKVPTRYGVVLGAVIGGVLGVLLLLLLFYVRYCWLRRQAALQRRLSAMEKG
KLHKPGKDASKRGRQTPVLYAML DHSRSTKAVSEKKAKGLGESRKDKK

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 28.4 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_000521](#)

Locus ID: 4359

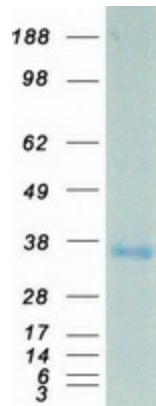
UniProt ID: [P25189](#)



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RefSeq Size:	1980
Cytogenetics:	1q23.3
RefSeq ORF:	774
Synonyms:	CHM; CHN2; CMT1; CMT1B; CMT2I; CMT2J; CMT4E; CMTDI3; CMTDID; DSS; HMSNIB; MPP; P0
Summary:	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. [provided by RefSeq, Oct 2015]
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs)

Product images:



Coomassie blue staining of purified MPZ protein (Cat# TP302450). The protein was produced from HEK293T cells transfected with MPZ cDNA clone (Cat# [RC202450]) using MegaTran 2.0 (Cat# [TT210002]).