

Recombinant Rat Mpz Protein, His&GST-tagged

Cat. No. Mpz-1791R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Mpz Protein (Ile30-Lys248) with N-His&GST tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Ile30-Lys248
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 the orthologous gene in human are associated with myelinating neuropathies. 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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 54.8 kDa Accurate Molecular Mass: 55 kDa
Purity	> 90%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Mpz myelin protein zero [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Mpz
Synonyms	MPZ; myelin protein zero; myelin protein P0; myelin peripheral protein; myelin protein zero (Charcot-Marie-Tooth neuropathy 1B); P0; MPP;
Gene ID	24564
mRNA Refseq	NM_017027
Protein Refseq	NP_058723

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UniProt ID

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