

Recombinant Human PLP1 Protein, His&GST-tagged

Cat. No. PLP1-1950H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PLP1 Protein (Leu129-Phe242) with N-His&GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Leu129-Phe242
Description	This gene encodes a transmembrane proteolipid protein that is the predominant component of myelin. The encoded protein may play a role in the compaction, stabilization, and maintenance of myelin sheaths, as well as in oligodendrocyte development and axonal survival. Mutations in this gene cause Pelizaeus-Merzbacher disease and spastic paraplegia type 2. Alternatively splicing results in multiple transcript variants, including the DM20 splice variant.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 42.0 kDa Accurate Molecular Mass: 42 kDa
Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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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 ddH ₂ O to a concentration ≤0.1 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	PLP1 proteolipid protein 1 [Homo sapiens (human)]
Official Symbol	PLP1
Synonyms	PLP1; proteolipid protein 1; PLP, spastic paraplegia 2, uncomplicated, SPG2; myelin proteolipid protein; Pelizaeus Merzbacher disease; lipophilin; major myelin proteolipid protein; PLP; PMD; HLD1; MMPL; SPG2; PLP/DM20;
Gene ID	5354
mRNA Refseq	NM_000533
Protein Refseq	NP_000524
MIM	300401

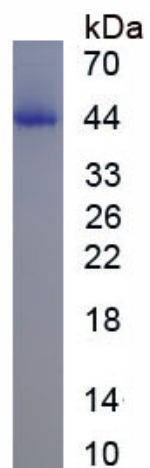
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