

## PMP2 Protein, Human, Recombinant (His)

### General Information

Synonyms:	MP2;FABP8;peripheral myelin protein 2;P2;M-FABP
Protein Construction:	A DNA sequence encoding the human PMP2 (NP_002668.1) (Ser 2-Val 132) was expressed, with a polyhistidine tag at the N-terminus. Predicted N terminal: Met 1
Species:	Human
Expression Host:	E. coli
Accession:	P02689
Molecular Weight:	16kDa (predicted); 16 kDa (reducing conditions)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 97 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

**Reconstitution:**  
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

**Stability & Storage:**

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

**Shipping:**

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Myelin P2 protein, also known as PMP2, is a cytosolic protein found primarily in peripheral nerves. It belongs to the calycin superfamily. Fatty-acid binding protein (FABP) family. PMP2 is a small, basic, and cytoplasmic lipid binding protein of peripheral myelin. It is similar in amino acid sequence and tertiary structure to fatty acid binding proteins found in the liver, adipocytes, and intestine, its expression is limited to the nervous system. PMP2 is detected only in myelin-producing cells of the central and peripheral nervous systems, the oligodendrocytes and

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Schwann cells, respectively. PMP2 may play a role in lipid transport protein in Schwann cells. It forms a beta-barrel structure that accommodates hydrophobic ligands in its interior.

### Reference

Hayasaka, K. et al., 1993, Genomics. 18 (2): 244-8.

Polverini, E. et al., 2006, J Struct Biol. 153 (3): 253-63.

Gould, R.M. et al., 2008, Neuron Glia Biol. 4 (2):137-52.

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