

Human PMP2 / FABP8 Protein (His Tag)



Sino Biological
Biological Solution Specialist

Catalog Number: 11426-H07E

General Information

Gene Name Synonym:

FABP8; M-FABP; MP2; P2

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.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 97 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met 1

Molecular Mass:

The recombinant human PMP2 consisting of 138 amino acids and migrates as an approximately 16 kDa band in SDS-PAGE under reducing conditions as predicted.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

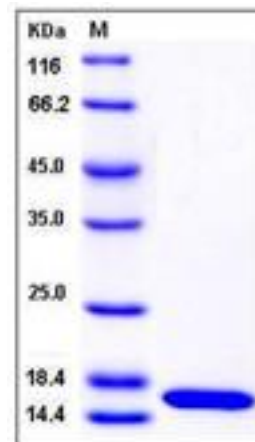
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Myelin P2 protein, also known as PMP2, is a cytosolic protein found primarily in peripheral nerves. It belongs to the calyculin 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 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.

References

1. Hayasaka, K. et al., 1993, *Genomics*. 18 (2): 244-8. 2. Polverini, E. et al., 2006, *J Struct Biol*. 153 (3): 253-63. 3. Gould, R.M. et al., 2008, *Neuron Glia Biol*. 4 (2): 137-52.

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