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Datasheet for ABIN4370664

MPZ Protein (AA 30-153) (His tag)

Overview

Quantity:	50 µg
Target:	MPZ
Protein Characteristics:	AA 30-153
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MPZ protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Myelin Protein P0/MPZ (C-6His)
Sequence:	IVVYTDREVEH GAVGSRVTLH CSFWSSEWVS DDISFTWRYQ PEGGRDAISI FHYAKGQPVI DEVGTFKERI QWVGDPRWKD GSIVIHNLDY SDNGTFTCDV KNPPDIVGKT SQVTLYVFEK VPTRVDHHHH HH
Characteristics:	Recombinant Human Myelin Protein P0/MPZ is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Ile30-Arg153) of Human MPZ fused with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	MPZ
Alternative Name:	Myelin-protein-P0 (MPZ Products)
Sub Type:	Fusionprotein
Background:	<p>Myelin Protein P0 (MPZ) is a single-pass type I membrane glycoprotein which belongs to the myelin P0 protein family. MPZ contains one Ig-like V-type (immunoglobulin-like) domain, absent in the central nervous system. MPZ is a major component of the myelin sheath in peripheral nerves. It is postulated that MPZ is a structural element in the formation and stabilisation of peripheral nerve myelin, holding its characteristic coil structure together by the interaction of its positively-charged domain with acidic lipids in the cytoplasmic face of the opposed bilayer, and by interaction between hydrophobic globular of adjacent extracellular domains. Defects in MPZ associated with Charcot-Marie-Tooth disease and Dejerine-Sottas disease.</p> <p>Alternative Names: Myelin Protein P0, Myelin Peripheral Protein, MPP, Myelin Protein Zero, MPZ</p>
Molecular Weight:	15.2 kDa
UniProt:	P25189

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH2O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	<p>Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>
Expiry Date:	3 months