

MPZL1, 38-162aa, Human, His tag, E.coli

Cat.NO.: TP03014

3th Edition

Synonyms: Myelin protein zero-like protein 1 isoform b, MPZL1b, PZR, PZR1b, PZRa, PZRb

Description: MPZL1 is a cell surface receptor, which is involved in signal transduction processes. This protein recruits PTPN11/SHP-2 to the cell membrane and is a putative substrate of PTPN11/SHP-2. It is a major receptor for concanavalin-A (ConA) and is involved in cellular signaling induced by ConA, which probably includes Src family tyrosine-protein kinases. Isoform 3 seems to have a dominant negative role; it blocks tyrosine phosphorylation of MPZL1 induced by ConA. Isoform 1, but not isoform 2 and isoform 3, may be involved in regulation of integrin-mediated cell motility. Recombinant human MPZL1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

Molecular Weight: 16.1 kDa (148aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSLEVYTPKEIFVANGTQGKLTCKFKSTSTTGGLTSVSWSFQPEGADTTVSFFH
YSQGQVYLGNYPPFKDRISWAGDLKDKDASINIENMQFIHNGTYICDVKNPPDIVVQPGHIRLYVVEKENLPV

Purity: > 95% by HPLC

Concentration: 0.5 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.