



# Recombinant Protein Technical Manual

## Recombinant Human MPZL1 Protein (His Tag)

RPES4988

### Product Data:

**Product SKU:** RPES4988

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** O95297

### Protein Information:

**Molecular Mass:** 15.2 kDa

**AP Molecular Mass:** 20-28 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Myelin protein zero-like 1; isoform CRA\_b;cDNA FLJ78597; highly similar to Homo sapiens myelin protein zero-like 1 (MPZL1); transcript variant 1; mRNA ;cDNA; FLJ96614; Homo sapiens myelin protein zero-like 1 (MPZL1); Mrna

## Immunogen Information:

**Sequence:** Ser36-Val162

## Background:

Myelin protein zero-like protein 1(MPZL1) is encoded by the MPZL1 gene, which is a single-pass type I membrane protein. It is widely expressed with highest levels in heart, placenta, kidney and pancreas. As cell surface receptor, it involved in signal transduction processes. MPZL1 recruits PTPN11/SHP-2 to the cell membrane and subsequently activate/phosphorylate Src kinase at Tyr426, promoting phosphorylation of cortactin and migration of HCC cells. MPZL1also is a major receptor for concanavalin-A (ConA) and involved in cellular signaling induced by ConA, which probably includes Src family tyrosine-protein kinases.