MPZL1 Protein, Human (HEK293, His)

Cat. No.:	HY-P70220
Synonyms:	rHuMyelin protein zero-like protein 1/MPZL1, His; 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
Species:	Human
Source:	HEK293
Accession:	O95297 (S36-V162)
Gene ID:	9019
Molecular Weight:	20-28 kDa

PROPERTIES

AA Sequence	S A L E V Y T P K E I F V A N G T Q G K L T C K F K S T S T T G G L T S V S W S F Q P E G A D T T V S F F H Y S Q G Q V Y L G N Y P P F K D R I S W A G D L D K K D A S I N I E N M Q F I H N G T Y I C D V K N P P D I V V Q P G H I R L Y V V E K E N L P V
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	MPZL1, a cell surface receptor intricately involved in signal transduction processes, plays a pivotal role in recruiting PTPN11/SHP-2 to the cell membrane, establishing itself as a putative substrate for PTPN11/SHP-2. As a major receptor for concanavalin-A (ConA), MPZL1 contributes to cellular signaling induced by ConA, likely involving Src family tyrosine-protein kinases. The isoform 3 variant appears to exert a dominant negative effect, inhibiting the tyrosine phosphorylation of MPZL1 induced by ConA. Notably, isoform 1, distinct from isoform 2 and isoform 3, is implicated in the regulation of integrin-mediated cell motility. The receptor also engages in interactions with phosphorylated PTPN11/SHP-2, underscoring its multifaceted involvement in signal transduction cascades.

Caution: Product has not been fully validated for medical applications. For research use only.

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