

MZB1/PERP1 Protein, Human (HEK293, His)

Cat. No.:	HY-P77095
Synonyms:	Marginal zone B- and B1-cell-specific protein; MEDA7; PACAP
Species:	Human
Source:	HEK293
Accession:	Q8WU39-1 (D23-T185)
Gene ID:	51237
Molecular Weight:	Approximately 19-23 kDa due to glycosylation

PROPERTIES

AA Sequence	<p> D R A P L T A T A P Q L D D E E M Y S A H M P A H L R C D A C R A V A Y Q M W Q N L A K A E T K L H T S N S G G R R E L S E L V Y T D V L D R S C S R N W Q D Y G V R E V D Q V K R L T G P G L S E G P E P S I S V M V T G G P W P T R L S R T C L H Y L G E F G E D Q I Y E A H Q Q G R G A L E A L L C G G P Q G A C S E K V S A T </p>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, PH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. 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	<p>The MZB1/PERP1 Protein associates with immunoglobulin M (IgM) heavy and light chains, facilitating the assembly and secretion of IgM. Its influence may stem from its role as a molecular chaperone or an oxidoreductase, given its demonstrated low level of oxidoreductase activity (By similarity). Isoform 2 potentially participates in the regulation of apoptosis. Moreover, MZB1/PERP1 contributes to the diversification of peripheral B-cell functions by overseeing Ca²⁺ stores, antibody secretion, and integrin activation. Acting as a hormone-regulated adipokine and pro-inflammatory cytokine, it is implicated in chronic inflammation, influencing cellular expansion and blunting insulin response in adipocytes. Additionally, MZB1/PERP1 may play a role in the onset of insulin resistance.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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