

## MZB1/PERP1 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P77094
Synonyms:	Marginal zone B- and B1-cell-specific protein; MEDA7; PACAP
Species:	Human
Source:	HEK293
Accession:	Q8WU39 (M1-T185)
Gene ID:	51237
Molecular Weight:	Approximately 44.9 kDa.

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
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	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 Ca(2+) 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.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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