

## MZB1/PERP1 Protein, Human, Recombinant (His)

### General Information

Synonyms:	MEDA-7; marginal zone B and B1 cell-specific protein; pERp1; HSPC190; PACAP
Protein Construction:	A DNA sequence encoding the human MGC29506 (Q8WU39-1) (Met 1-Thr 185) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Asp 23
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q8WU39-1
Molecular Weight:	19.4 kDa (predicted); 22 and 20 kDa (reducing conditions)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, PH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

**Reconstitution:**  
Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.

**Stability & Storage:**  
It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

**Shipping:**  
In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

MZB1 (Marginal Zone B And B1 Cell Specific Protein, also known as MEDA-7 and pERp1) is a Protein Coding gene. MZB1 is a B-cell-specific and endoplasmic reticulum (ER)-localized protein implicated in antibody secretion and integrin-mediated cell adhesion. MZB1 is important for B cell function as a key regulator of antibody secretion, calcium homeostasis, and adhesion. MZB1 may play a central role in B cell neoplasms and is a potential target for future therapeutic interventions. Low MZB1 expression was an independent prognostic factor for recurrence after

curative gastrectomy and was associated significantly with increased hematogenous recurrence. MZB1 acts as a suppressor of gastric cancer (GC). Low MZB1 expression in the primary GC tissue is predictive of recurrence after curative resection.

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