

Recombinant Rat MZB1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52653

Size: 10ug, 100ug

Protein Name: Marginal zone B- and B1-cell-specific protein (Plasma cell-induced resident endoplasmic reticulum protein) (Plasma cell-induced resident ER protein) (pERp1) (Proapoptotic caspase adapter protein)

Synonym: Mzb1, Pacap

UniProt ID: Q561R0

UniProt Link: www.uniprot.org/uniprotkb/Q561R0/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 188 AA

Molecular Weight: 21 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MRLPLPLLLLFGCRAILGSFGDRVLSATAPTLDDDEEKYASHMPHTLRCDACRAVAYQMGQHLAKAE
AKSHTPDSSGSQELSESTYTDVLDRTCSQNWQSYGVQEVNQMKRLMGPGLSKGPEPSISVMITGG
PWPNRLSMTCFHYLGEFGEDQIYEAYRQGHETLEALLCGGTHGSCSQEIPAQREEL

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Marginal zone B- and B1-cell-specific protein (Plasma cell-induced resident endoplasmic reticulum protein) (Plasma cell-induced resident ER protein) (pERp1) (Proapoptotic caspase adapter protein) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Associates with immunoglobulin M (IgM) heavy and light chains and promotes IgM assembly and secretion. May exert its effect by acting as a molecular chaperone or as an oxidoreductase as it displays a low level of oxidoreductase activity (By similarity). Helps to diversify peripheral B-cell functions by regulating Ca(2+) stores, antibody secretion, and integrin activation.; Acts as a hormone-regulated adipokine/pro-inflammatory cytokine that is implicated in causing chronic inflammation, affecting cellular expansion and blunting insulin response in adipocytes. May have a role in the onset of insulin resistance (By similarity).

Subcellular Localization: Endoplasmic reticulum lumen . Secreted .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.