
Product Data Sheet

Product Name: MZB1 Human
 Cat. No.: GP23997
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms
 Marginal Zone B and B1 Cell-Specific Protein; MZB1; PACAP; Mesenteric Oestrogen-Dependent Adipose Gene- 7; Plasma Cell-Induced ER Protein 1; Proapoptotic Caspase Adaptor Protein; Mesenteric Estrogen-Dependent Adipose 7; Plasma Cell-Induced Resident Endoplasmic Reticulum Protein; Plasma Cell-Induced Resident ER Protein; Proapoptotic Caspase Adapter Protein; MEDA-7; pERp1; HSPC190; Caspase-2 Binding Protein; Marginal Zone B- And B1-Cell-Specific Protein; MEDA7; MGC29506.

Amino Acid Sequence
 MGSSHHHHHH SGLVPRGSH MGSMPAELWL TSYGVREVDQ VKRLTGPGLS
 EGPEPSISVM VTGGPWPTL SRTCLHYLGE FGEDQIYEAH QQGRGALEAL
 LCGGPQGACS EKVSATREEL.

Formulation
 The MZB1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.

Introduction

Marginal zone B- and B1-cell-specific protein (MZB1) functions as a hormone-regulated adipokine/proinflammatory cytokine which is implicated in causing chronic inflammation and affecting cellular expansion. MZB1 links with immunoglobulin M (IgM) heavy and light chains and stimulate s IgM assembly and secretion. MZB1 exerts its effect by acting as a molecular chaperone or as an oxidoreductase as it exhibits a low level of oxidoreductase activity. MZB1 helps to diversify peripheral B-cell functions by regulating Ca(2+) stores, antibody secretion and integrin activation.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

MZB1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 120 amino acids (1-97) and having a molecular mass of 12.9 kDa. MZB1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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