HUMAN AZU1 PROTEIN, HIS TAG

Cat.#: 11884

Product Name: Human AZU1 Protein

Size : 10 µg, 50 µg and 100 µg

Synonyms: AZAMP;AZU;CAP37;HBP;hHBP;HUMAZUR;NAZC

Target: AZU1

UNIPROT ID: P20160

Description: Recombinant Human AZU1 Protein with C-terminal 6xHis tag

Background: Azurophil granules, specialized lysosomes of the neutrophil, contain at least 10 proteins implicated in the killing of microorganisms. This gene encodes a preproprotein that is proteolytically processed to generate a mature azurophil granule antibiotic protein, with monocyte chemotactic and antimicrobial activity. It is also an important multifunctional inflammatory mediator. This encoded protein is a member of the serine protease gene family but it is not a serine proteinase, because the active site serine and histidine residues are replaced. The genes encoding this protein, neutrophil elastase 2, and proteinase 3 are in a cluster located at chromosome 19pter. All 3 genes are expressed coordinately and their protein products are packaged together into azurophil granules during neutrophil differentiation. [provided by RefSeq, Nov 2015]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 24.9 kDa after removal of the signal peptide. The apparent molecular mass of AZU1-His is approximately 35-55 kDa due to glycosylation.

Molecular Characterization: AZU1(Ile27-Pro248) 6×His tag

Purity: The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

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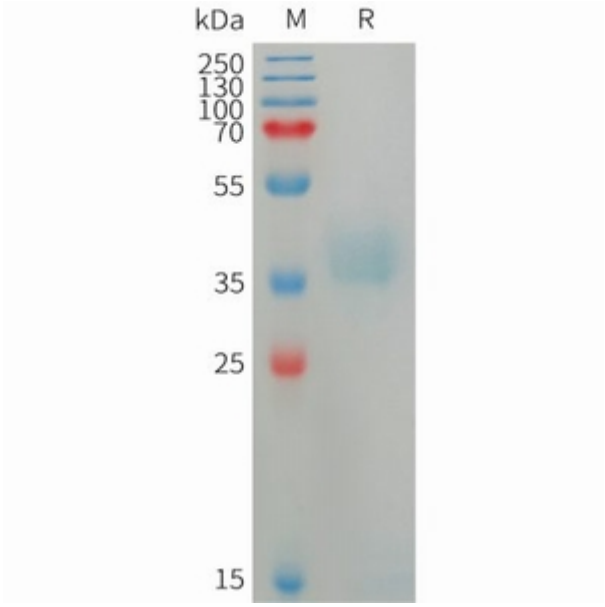

Figure 1. Human AZU1 Protein, His Tag on SDS-PAGE under reducing condition.

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