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## **Recombinant human AHSP protein**

Catalog Number: ATGP0369

#### **PRODUCT INFORMATION**

#### **Expression system**

E.coli

#### **Domain**

1-102aa

#### **UniProt No.**

O9NZD4

#### **NCBI Accession No.**

NP 057717.1

#### **Alternative Names**

Alpha-hemoglobin stabilizing protein, ERAF, EDRF, Alpha-hemoglobin stabilizing protein Alpha hemoglobin stabilizing protein, Erythroid associated factor, Erythroid differentiation associated factor, Erythroid differentiation related factor,

#### **PRODUCT SPECIFICATION**

#### **Molecular Weight**

11.8 kDa (102aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

#### **Purity**

> 95% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

#### Tag

Non-Tagged

### **Application**

SDS-PAGE

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

### **BACKGROUND**

#### **Description**

AHSP (Alpha-hemoglobin stabilizing protein), also known as ERAF (Erythroid associated factor), is an erythroid-specific protein that acts as a chaperone to prevent the aggregation of alpha-hemoglobin during normal



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erythroid cell development. It specifically protects free alpha-hemoglobin from precipitation in live cells and in solution. This protein is downregulated in transmissible spongiform encephalopathies (TSEs). It is predicted to modulate pathological states of alpha-hemoglobin excess such as beta-thalassemia. Recombinant AHSP protein was expressed in E. coli and purified by using conventional chromatography techniques.

#### **Amino acid Sequence**

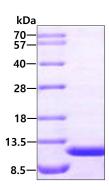
MALLKANKDL ISAGLKEFSV LLNQQVFNDP LVSEEDMVTV VEDWMNFYIN YYRQQVTGEP QERDKALQEL RQELNTLANP FLAKYRDFLK SHELPSHPPP SS

#### **General References**

Dos Santos CO., et al. (2008) J Biol Chem. 283(40):26956-64. Sekijima Y., et al. (2005) Cell. 121(1):73-85.

#### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

