

Recombinant human AHSP protein

Catalog Number: ATGP0369

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-102aa

UniProt No.

Q9NZD4

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

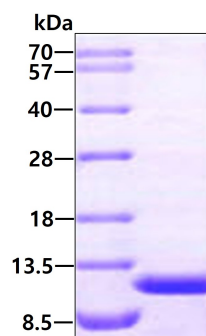
General References

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



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