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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

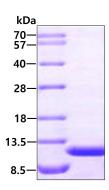
MALLKANKDL ISAGLKEFSV LLNQQVFNDP LVSEEDMVTV VEDWMNFYIN YYRQQVTGEP QERDKALQEL RQELNTLANP FLAKYRDFLK SHELPSHPPP SS

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.

