
Product Data Sheet

Product Name: AHSP Human
 Cat. No.: GP22697
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Alpha-hemoglobin-stabilizing protein; Erythroid-associated factor; Erythroid differentiation-related factor; AHSP; EDRF; ERAF.		
Amino Acid Sequence	MALLKANKDL ISAGLKEFSV LLNQQVFNDP LVSEEDMVTV VEDWMNIFYIN YYRQQVTGEP QERDKALQEL RQELNTLANP FLAKYRDFLK SHELP SHPPP SS.		
Formulation	The AHSP protein solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0) and 10% glycerol.		

Introduction

Alpha-hemoglobin stabilizing protein (AHSP) is an erythroid-specific protein that acts as a chaperone to prevent the aggregation of A-hemoglobin during normal erythroid cell development. AHSP specifically protects free A-hemoglobin from precipitation in live cells and in solution. AHSP is expected to modulate pathological states of alpha-hemoglobin excess such as beta-thalassemia. Furthermore, AHSP promotes alpha globin chain stability in human erythropoiesis. In addition, the AHSP stabilizes the alpha-Hb chain, thus avoiding its precipitation and its ability to generate ROS, which is implicated in cell death. AHSP is expressed in blood and bone marrow. AHSP subunit is a monomer, it forms a heterodimer with free alpha-hemoglobin. On the other hand, AHSP does not bind beta-hemoglobin nor alpha2beta2 hemoglobin A. AHSP is downregulated in TSEs (transmissible spongiform encephalopathies).

Stability

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

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

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AHSP Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 102 amino acids (1-102 a.a.) and having a molecular mass of 11.8kDa. The AHSP is purified by proprietary chromatographic techniques.

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