
Product Data Sheet

Product Name: SERPINH1 Human

Cat. No.: GP25099

Batch No.: 1

Product Data

Purity >98%

Source Escherichia Coli.

Physical
Appearance solidShipping
Condition Shipped with Ice Packs.

Synonyms

HSP47; HSP-47; Colligin-1; CBP1; Collagen Binding Protein-1; Serpin Peptidase Inhibitor Clade-H memembr 1; Serpin H1; Collagen-binding protein; Colligin; 47 kDa heat shock protein; Rheumatoid arthritis-related antigen RA-A47; Arsenic-transactivated protein 3; AsTP3; Cell proliferation-inducing gene 14 protein; SERPINH1; CBP2; gp46; PIG14; PPROM; RA-A47; SERPINH2.

Amino Acid
Sequence

MGSSHHHHHH SGLVPRGSH MAAEVKKPAA AAPGTAEKL SPKAATLAER
SAGLAFSLYQ AMAKDQAVEN ILVSPVVVAS SLGLVSLGGK ATTASQAKAV
LSAEQLRDEE VHAGLGELLR SLSNSTARNV TWKLGSRLYG PSSVSFADDF
VRSSKQHYN C EHSKINFRDK RSALQSINEW AAQTTDGKLP EVTKDVERTD
GALLVNAMEFF KPHWDEKFHH KMVDNRGFMV TRSYTVGVMM MHRTGLYNY
DDEKEKLQIV EMPLAHLKSS LIILMPHHVE PLERLEKLLT KEQLKIWMGK
MQKKAVAI SL PKGVVEVTHD LQKHLAGLGL TEAIDKNKAD LSRMSGKKDL
YLASVFHATA FELDTDGNPF DQDIYGREEL RSPKLFYADH PFIFLVRDTQ
SGSLLFIGRL VRPKGDKMRD EL.

Formulation

The SERPINH1 protein solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0) and 10% glycerol.

Introduction

SERPINH1 is part of the serpin superfamily of serine proteinase inhibitors. SERPINH1 expression is induced by heat shock. HSP47 localizes to the endoplasmic reticulum lumen and binds collagen therefore it is a molecular chaperone which takes part in the maturation of collagen molecules, facilitating the folding and assembly of procollagen molecules, retaining unfolded molecules within the ER, and assisting the transport of correctly folded-molecules from the ER to Golgi apparatus. Autoantibodies to HSP47

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

protein have been found in rheumatoid arthritis. SERPINH1 binds specifically to collagen and acts as a chaperone in the biosynthetic pathway of collagen.

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

Recombinant Human HSP47 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 422 amino acids (18-418 a.a) and having a molecular mass of 46.8kDa. HSP47 human recombinant is fused to a 20 amino acid His Tag at N-terminus and purified by conventional chromatography techniques.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA