

Synonym

SERPINH1,Serpin
H1,HSP47,CBP1,CBP2,SERPINH2,PIG14,AsTP3,Colligin,OI10,PPROM,RA-
A47,gp46

Source

Human Serpin H1, His Tag (SE1-H5224) is expressed from human 293 cells (HEK293). It contains AA Ala 19 - Leu 418 (Accession # [P50454-1](#)).

Predicted N-terminus: Ala 19

Molecular Characterization

Serpin H1(Ala 19 - Leu 418)
P50454-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 45.5 kDa. The protein migrates as 48-55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

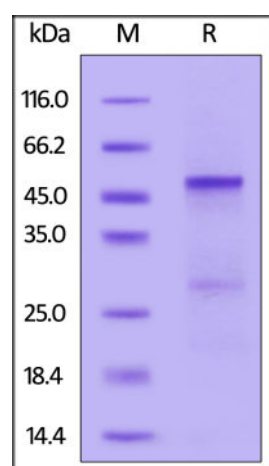
Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

Human Serpin H1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Background

Serpin H1 is also known as SERPINH1, 47 kDa heat shock protein (HSP47), Collagen-binding protein (Colligin), Arsenic-transactivated protein 3 (AsTP3), which belongs to the serpin family. SERPINH1 binds specifically to collagen. SERPINH1 / HSP47 could be involved as a chaperone in the biosynthetic pathway of collagen.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.