

Synonym

S100A14,S114,S100A15

Source

Human S100A14, His Tag (S14-H5121) is expressed from E.coli cells. It contains AA Met 1 - His 104 (Accession # [Q9HCY8-1](#)).

Predicted N-terminus: Met 1

Molecular Characterization

S100A14(Met 1 - His 104)
Q9HCY8-1 Poly-his

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

The protein has a calculated MW of 12.5 kDa. The protein migrates as 13 kDa under reducing (R) condition (SDS-PAGE).

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 150 mM NaCl, pH8.0. 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.

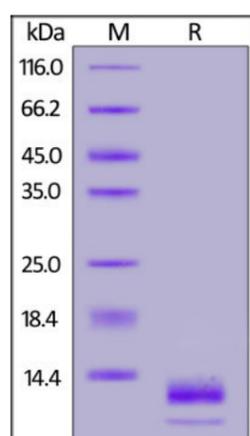
Storage

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 S100A14, 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 95%.

Background

Protein S100-A14 (S100A14) is also known as S100 calcium-binding protein A14 (S114), which belongs to the S-100 family, containing one EF-hand domain. S100A14 is a homodimer can interact with AGER. S100A14 can modulate P53/TP53 protein levels, and play a role in the regulation of cell survival and apoptosis at different concentrations via receptor for advanced glycation end products (RAGE). S100A14 also plays a role in the regulation of cell migration by modulating the levels of MMP2, a matrix protease that is under transcriptional control of P53/TP53.

References

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