

**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.*

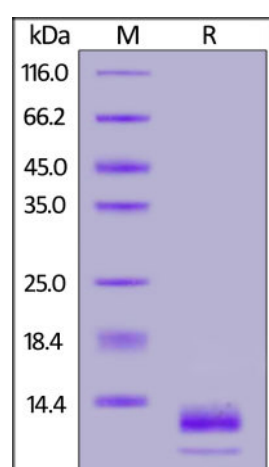
**Storage**

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](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.