Human S100A8 Protein

Cat. No. SA8-HE101

Description

Source	Recombinant Human S100A8 Protein is expressed from E.coli with His tag at the C-Terminus.
	It contains Met1-Glu93.
Accession	P05109
Molecular Weight	The protein has a predicted MW of 11.7 kDa same as Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

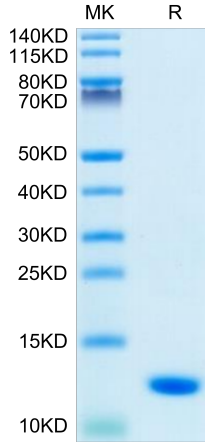
Formulation	Lyophilized from 0.22μm filtered solution in PBS, 2mM DTT (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

S100A8 and S100A9 (also known as MRP8 and MRP14, respectively) are Ca2 binding proteins belonging to the S100 family. They often exist in the form of heterodimer, while homodimer exists very little because of the stability. S100A8/A9 is constitutively expressed in neutrophils and monocytes as a Ca2 sensor, participating in cytoskeleton rearrangement and arachidonic acid metabolism.

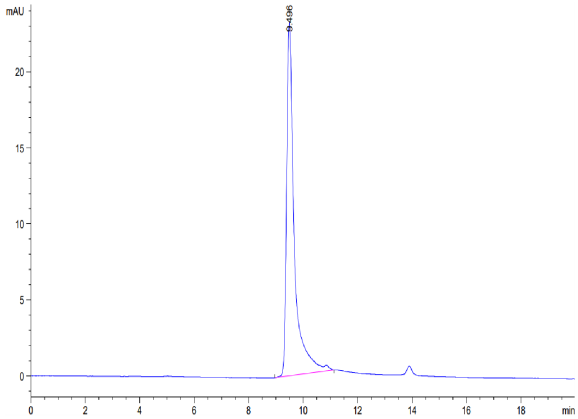
Assay Data

Bis-Tris PAGE



Human S100A8 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human S100A8 is greater than 95% as determined by SEC-HPLC.

For Research Use Only