

## General Information

### Gene Name Synonym

Calgranulin-A; Calprotectin L1L subunit; Cystic fibrosis antigen; Leukocyte L1 complex light chain; Migration inhibitory factor-related protein 8; S100 calcium-binding protein A8; Urinary stone protein band A; Protein S100-A8, N-terminally processed

### Protein Construction

A DNA sequence encoding the human S100A8 (NP\_002955.2) (Met1-Glu93) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the human S100A9 (NP\_002956.1) (Met1-Pro114) was fused with a flag tag at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the S100A8 & S100A9 heterodimer was purified.

### Organism

Human

### Expression Host

Baculovirus-Insect Cells

## QC Testing

### Purity

> 95 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per  $\mu$ g protein as determined by the LAL method.

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Met & Met

### Molecular Mass

The recombinant mouse S100A8 & S100A9 heterodimer comprises 103 amino acids (S100A8) and 122 amino acids (S100A9). It has a calculated molecular mass of 12.2 kDa (S100A8) and 14.2 kDa (S100A9).

### Formulation

Lyophilized from sterile 50 mM Tris, 500 mM NaCl, 10 % glycerol, pH 8.0.

1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

## Usage Guide

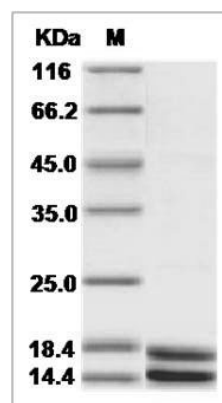
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Human S100A8 & S100A9 Heterodimer Protein