

S100A8 & S100A9 Heterodimer Protein, Human, Recombinant (His)

General Information

Synonyms:	MRP-14;Calgranulin-A;CFAG;Protein S100-A9;S100 calcium-binding protein A9;Protein S100-A8;MRP-8;S100 calcium-binding protein A8
Protein Construction:	Met1-Glu93 (S100A8) and Thr2-Pro114 (S100A9). His tag at the C-Terminus of S100A8.
Species:	Human
Expression Host:	E. coli
Accession:	P05109 (S100A8) & P06702 (S100A9)
Molecular Weight:	11.7 kDa (S100A8)&13.2 kDa (S100A9) (Predicted same as reducing conditions)

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 95% as determined by Bis-Tris PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22μm filtered solution in 2mM DTT, PBS (pH 7.2). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Calprotectin, a member of the widespread calcium-binding S-100 protein family, is present in remarkably high concentration in the cytoplasm of human neutrophils. The calprotectin molecule is composed of light (MRP8) and heavy (MRP14) subunits. Although not secreted from intact neutrophils, calprotectin release from dead and dying neutrophils creates high concentrations of the protein in inflammatory or abscess fluids and in the intestinal tract lumen of patients with inflammatory bowel disease.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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