



# Recombinant Protein Technical Manual

## Recombinant Mouse S100A8/CAGA Protein (His Tag)

RPES2733

### Product Data:

**Product SKU:** RPES2733

**Size:** 10µg

**Species:** Mouse

**Expression host:** E. coli

**Uniprot:** P27005

### Protein Information:

**Molecular Mass:** 11.3 kDa

**AP Molecular Mass:** 13 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % as determined by SDS-PAGE

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mMTris, pH8.0.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Protein S100-A8;Calgranulin-A;Chemotactic cytokine CP0;Leukocyte L1 complex light chain;Migration inhibitory factor-related protein 8;MRP-8;Pro-inflammatory S100 cytokine;S100 calcium-binding protein A8;S100a8;Caga; Mrp8;60B8Ag;A1323541;B8Ag;Caga;CFAg;CP0;p8

## Immunogen Information:

**Sequence:** Met1-Glu89

## Background:

Protein S100-A8(Mrp8) contains 2 EF-hand domains and belongs to the S00 family. Mrp8 binds two calcium ions per molecule with an affinity similar to that of the S00 proteins. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. It may function in the inhibition of casein kinase and as a cytokine. Altered expression of this protein is associated with the disease cystic fibrosis.