

# Recombinant mouse S100A8 protein

Catalog Number: ATGP1085

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-89aa

### UniProt No.

P27005

### NCBI Accession No.

NP\_038678

### Alternative Names

Protein S100-A8, 60B8Ag, AI323541, B8Ag, Caga, CFAg, CP-10, MRP8, p8

## PRODUCT SPECIFICATION

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### Molecular Weight

12.4 kDa (109aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 30% glycerol, 0.1M NaCl, 1mM DTT

### Purity

> 95% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

S100A8, also known MRP8, is a member of the S100 family, EF-hand superfamily of calcium binding proteins. This protein is 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. It functions both intracellularly and extracellularly, where it binds to RAGE and CD36. Altered expression of this protein is associated with the disease cystic fibrosis. Recombinant mouse S100A8 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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### Amino acid Sequence

MGSSHHHHHHH SSSLVPRGSH MPSELEKALS NLIDVYHNYS NIQGNHHALY KNDFKMMVTT ECPQFVQNIN IENLFRELDI  
NSDNAINFEE FLAMVIKVG V ASHKDSHKE

### General References

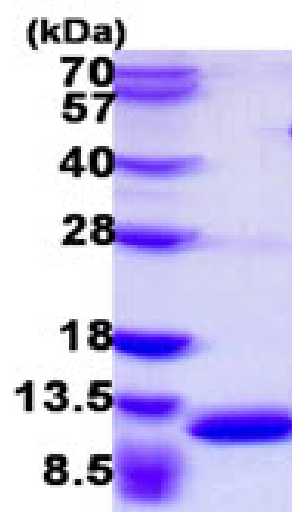
Kerkhoff C., et al. (1999) *Biochim. Biophys.* 1448(2):200-11.

Nacken W., et al. (2003) *Biochim. Biophys.* 60(6):569-80.

## DATA

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### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)