

# Recombinant Mouse S100A8/CAGA Protein (His Tag)

Catalog Number:PKSM041133



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

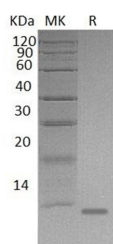
## Description

<b>Synonyms</b>	Protein S100-A8;Calgranulin-A;Chemotactic cytokine CP-10;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;AI323541;B8Ag;Caga;CFAg;CP-10;p8
<b>Species</b>	Mouse
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Met1-Glu89
<b>Accession</b>	P50115
<b>Calculated Molecular Weight</b>	11.3 kDa
<b>Observed molecular weight</b>	13 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, 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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20mM Tris-HCl, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Protein S100-A8(Mrp8) contains 2 EF-hand domains and belongs to the S-100 family. Mrp8 binds two calcium ions per molecule with an affinity similar to that of the S-100 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

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disease cystic fibrosis.

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