

Recombinant human S100A8 protein

Catalog Number: ATGP3372

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-93aa

UniProt No.

P05109

NCBI Accession No.

NP_002955

Alternative Names

60B8AG, CAGA, CFAG, CGLA, CP-10, L1Ag, MA387, MIF, MRP8, NIF, P8

PRODUCT SPECIFICATION

Molecular Weight

14.5 kDa (127aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.1M NaCl

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Myc-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

Description

S100A8, also known as S100A8 isoform d. S100A8 is a member of the S100 family, EF-hand superfamily of Calcium binding proteins. S100A8 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

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expression of this protein is associated with the disease cystic fibrosis. Recombinant human S100A8, fused to His-tag at N-terminus, fused to Myc-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MGSHTMLTELE KALNSIIDVY HKYSLIKGNF HAVYRDDLKK LLETCEPQYI RKKGADVWFK
ELDINTDGAV NFAQEFLILVI KMGVAAHKKS HEESHKEEQK LISEEDL

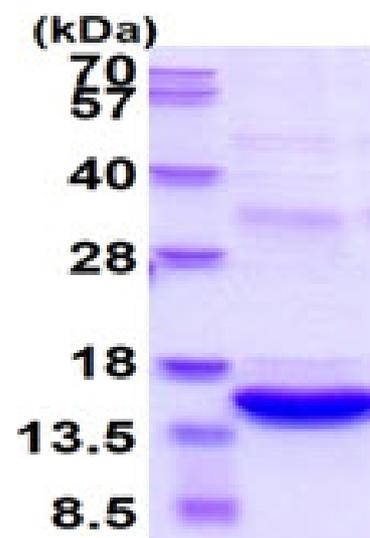
General References

Kerkhoff C., et al. (1998) *Biochim. Biophys.* 1448(2):200-11.

Nacken W., et al. (2003) *Microsc Res Tech.* 60(6):569-80.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)