Recombinant human S100A8 protein

Catalog Number: ATGP0524

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-93aa

UniProt No.
P05109

NCBI Accession No.
NP_002955.2

Alternative Names
S100 calcium binding protein A8, Calgranulin-A, MRP-8, CFAG, CAGA, S100 calcium binding protein A8 60B8Ag, AI323541, B8Ag, BEE11, CAGA, Calprotectin L1L subunit, Calprotectin, included, CGLA, Chemotactic cytokine CP-10, CP-10, Cystic fibrosisantigen, L1Ag, Leukocyte L1 complex light chain, MA387, MIF, Migration inhibitory factor-related protein 8, Myeloid-related protein 8, Neutrophil cytosolic 7 kDa protein, NIF, p8, Pro-inflammatory S100 cytokine, Protein S100-A8, S100 calcium binding protein A8 (calgranulin A), S100A8, S100A8/S100A9 complex, included, urinary stone protein band A.

PRODUCT SPECIFICATION

Molecular Weight
10.8 Da (93aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

Purity
> 90% by SDS-PAGE

Tag
Non-Tagged

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
S100 calcium binding protein A8, also known as MRP8, is a member of the S100 family, EF-hand superfamily of

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Calcium binding proteins. S100A8 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. 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 human S100A8 was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

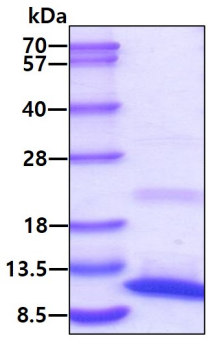
MLTELEKALN SIIDVYHKYS LIKGNFHAVY RDDLKKLLET ECPQYIRKKG ADVWFKELDI NTDGAVNFQE FLILVIKMGV AAHKKSHEES HKE

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

SDS-PAGE



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