

Recombinant human S100A7 protein

Catalog Number: ATGP0991

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-101aa

UniProt No.

P31151

NCBI Accession No.

AAH34687

Alternative Names

S100 calcium binding protein A7, S100A7c, Psoriasin

PRODUCT SPECIFICATION

Molecular Weight

13.6 kDa (121aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 90% 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

Description

S100A7, also known as Psoriasin, belongs to the S-100 family of calcium binding proteins and is secreted via a non-classical secretory pathway into the cytoplasm. It is thought to function in the regulation of many cellular processes, including the cell cycle, cell progression and cellular differentiation. It contains two EF-hand domains and is highly upregulated in psoriatic epidermis, as well as in bladder squamous cell carcinoma and breast cancer tissue, suggesting a possible role in carcinogenesis. Recombinant human S100A7 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

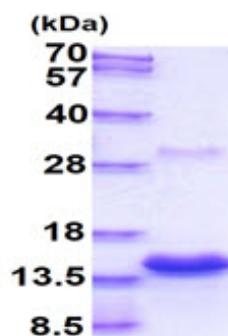
MGSSHHHHHH SSSLVPRGSH MSNTQAERSI IGMIDMFHKY TRRDDKIDKP SLLTMMKENFPNFLSACDKK GTNYLADVFE
KKDKNEDKKI DFSEFLSLLG DIATDYHKQS HGAAPCSGGS Q

General References

Celis J.E., et al. (1998). *Structure.*, 6: 477-489
Martinsson H., et al. (2005). *Exp. Dermatol.*, 14: 161-168.

DATA

SDS-PAGE



15% SDS-PAGE (3 μ g)

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