PRODUCT INFORMATION

Expression system E.coli

Domain 1-101aa

UniProt No. P33764

NCBI Accession No. NP_002951

Alternative Names S100 calcium binding protein A3, S100E

PRODUCT SPECIFICATION

Molecular Weight 13.9 kDa (121aa) confirmed by MALDI-TOF

Concentration 1mg/ml (determined by Bradford assay)

Formulation Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 2mM DTT, 0.2M NaCl.

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

S100A3 is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. 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. S100A3 binds calcium with low affinity and zinc with high affinity and is believed to play a role in the calcium-dependent differentiation of cuticle cells and in the formation of hair shafts. Recombinant human S100A3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

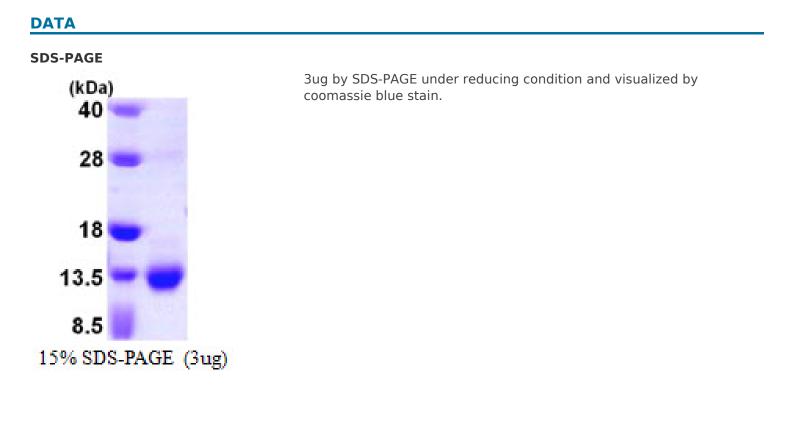


Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MARPLEQAVA AIVCTFQEYA GRCGDKYKLC QAELKELLQK ELATWTPTEF RECDYNKFMS VLDTNKDCEV DFVEYVRSLA CLCLYCHEYF KDCPSEPPCS Q

General References

Fritz G., et al. (1998) Biochim Biophys Acta. 1448(2):264-76. Kizawa K., et al. (2008) J Biol Chem. 283(8):5004-13.



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