

Product information

S100A3, 1-101 aa

Human, His-tagged, Recombinant, *E.coli*

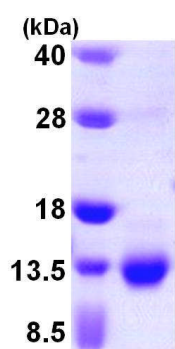
Cat. No. IBATGP1078

Full name: S100 calcium binding protein A3

NCBI Accession No.: NP_002951

Synonyms: S100E

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.

<p>Form: Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 20% glycerol, 2mM DTT, 0.2M NaCl.</p> <p>Molecular Weight: 13.9 kDa (121aa), confirmed by MALDI-TOF</p> <p>Purity: > 90 % by SDS - PAGE</p> <p>Concentration: 1 mg/ml (determined by Bradford assay)</p>	
<p>Sequences of amino acids:</p> <p><u>MGSSHHHHHH</u> <u>SSGLVPRGSH</u> MARPLEQAVA AIVCTFQEYA GRCGDKYKLC QAEKELLQK ELATWTPTEF RECDYNKFMS VLDTNKDCEV DFVEYVRS LA CLCLYCHEYF KDCPSEPPCS Q</p>	

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.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



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