

Recombinant Human S100 Calcium Binding Protein A13

Cat. No. S100A13-435H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human full length S100A13 (S100 Calcium Binding Protein A13) expressed in <i>E.coli</i> was cloned from human cDNA. It consists of the human S100A13 (residues 1-98 swissprot accession Q99584). MW = 11.4 kDa.
Species	Human
Source	E.coli
ProteinLength	1-98 a.a.
Description	Protein S100-A13 is a protein that in humans is encoded by the S100A13 gene. The protein encoded by this gene 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. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein is widely expressed in various types of tissues with a high expression level in thyroid gland. In smooth muscle cells, this protein co-expresses with other family members in the nucleus and in stress fibers, suggesting diverse functions in signal transduction. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene.
Purity	> 95% by SDS-PAGE. The protein was observed as a single band migrating at a molecular weight of (<20 kDa).

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Supplied As	0.5mg/ml in 50mM sodium acetate, pH 5.6. The concentration is calculated from the absorbance at 280nm ($\epsilon_{280} = 6970 \text{ M}^{-1}\text{cm}^{-1}$).
Characteristics	Under the above described conditions, to avoid precipitation or protein dimerization, the product can be concentrated to a maximum of 4mM.
Storage	-20°C. The protein is stable at 4°C for at least 2 weeks and at 25°C for at least several hours. After initial defrost, aliquot product into individual tubes and refreeze at -20°C. Avoid repeated freeze/thaw cycles.
Full Length	Full L.

GENE INFORMATION

Gene Name	S100A13 S100 calcium binding protein A13 [Homo sapiens]
Synonyms	S100A13; S100 calcium binding protein A13; OTTHUMP00000034802; S100 calcium-binding protein A13; Protein S100-A13
Gene ID	6284
mRNA Refseq	NM_001024210
Protein Refseq	NP_001019381
MIM	601989
UniProt ID	Q99584
Chromosome Location	1q21

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Function	calcium ion binding
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PDB rendering based
on 1yur.



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