S100A11 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	S100A11, Recombinant Protein
Full Product Name	Recombinant Human S100A11 protein (His Tag)
Product Gene Name	S100A11 recombinant protein
Product Synonym Names	Calgizzarin; Epididymis secretory protein Li 43; HEL S 43; MLN 70; MLN70; Metastatic lymph node gene 70 protein; N-terminally processed; Protein S100 A11; Protein S100-A11; Protein S100-C; Protein S100A11; Protein S100C; S100; S100 A11; S100 calcium binding protein A11
Sequence	Met1-Thr10 5
Host	E coli
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Purity/Purification	>90% as determined by reducing SDS-PAGE.
Preparation and Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 degree C. Reconstituted protein solution can be stored at 4-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months.
Molecular Weight	11,740 Da
OMIM	603114
3D Structure	ModBase 3D Structure for P31949
Species	Human
Tag	N-His
Endotoxin	<10EU/mg of the protein as determined by the LAL method.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5mg/mL. Concentration is measured by UV-Vis.
Product Categories/Family for S100A11 recombinant protein	Proteins; Recombinant Proteins; Others; Signal Transduction; Cell biology
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for S100A11 recombinant protein	Immunogen
Related Product Information for S100A11 recombinant protein	MBS2580346 is a recombinant protein targeting S100A11. Also known as Recombinant Human S100A11 protein (His Tag). Host: E coli. Facilitates the differentiation and the cornification of keratinocytes.
Other Notes	Small volumes of S100A11 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for S100A11. It may not necessarily be applicable to this product.

NCBI GI #	5032057
NCBI GeneID	6282
NCBI Accession #	NP_005611.1
UniProt Primary Accession #	P31949
UniProt Secondary Accession #	Q5VTK0
UniProt Related Accession #	P31949
GenBank Nucleotide #	NM_005620.1
NCBI Official Full Name	protein S100-A11
NCBI Official Synonym Full Names	S100 calcium binding protein A11
NCBI Official Symbol	S100A11
NCBI Official Synonym Symbols	MLN70; S100C; HEL-S-43
UniProt Protein Name	Protein S100-A11
UniProt Synonym Protein Names	Calgizzarin; Metastatic lymph node gene 70 protein; MLN 70; Protein S100-C; S100 calcium-binding protein A11Protein S100-A11, N-terminally processed
Protein Family	Protein
UniProt Gene Name	S100A11
UniProt Synonym Gene Names	MLN70; S100C; MLN 70
UniProt Entry Name	S10AB_HUMAN
NCBI Protein Information	protein S100-A11; MLN 70; S100 calcium-binding protein A11 (calgizzarin); epididymis secretory protein Li 43; metastatic lymph node gene 70 protein; protein S100-C
NCBI Summary for S100A11	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 may function in motility, invasion, and tubulin polymerization. Chromosomal rearrangements and altered expression of this gene have been implicated in tumor metastasis. [provided by RefSeq, Jul 2008]
UniProt Comments for S100A11	S100A11: a calcium-binding regulatory protein of the S-100 family. Interacts with the N-termini of annexins A1. May regulate fusion processes such as endo- and exocytosis. Increases in the early stage of pancreatic carcinogenesis and decreases during subsequent progression to cancer. Increased expression in anaplastic large cell lymphoma. Protein type: DNA replication; Cell cycle regulation; Calcium-binding Chromosomal Location of Human Ortholog: 1q21 Cellular Component: nucleoplasm; ruffle; extracellular space; cytoplasm; nucleus Molecular Function: protein binding; protein homodimerization activity; calcium ion binding; calcium-dependent protein binding Biological Process: negative regulation of cell proliferation; negative regulation of DNA replication; signal transduction
Research Articles on S100A11	**1.** All three markers correlated significantly with regional lymph node metastasis: FXYD3 (p = 0.0110), S100A11 (p = 0.0071), and GSTM3 (p = 0.0173) in colon cancer lymphatic metastasis.

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