

Recombinant Human S100A12, His-tagged

Cat. No. S100A12-30229TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human S100A12 with an N terminal His tag; 101 amino acids with tag, predicted MWt: 11.6 kDa.
Species	Human
Source	E.coli
ProteinLength	91 amino acids
Description	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 proposed to be involved in specific calcium-dependent signal transduction pathways and its regulatory effect on cytoskeletal components may modulate various neutrophil activities.
Conjugation	HIS
Molecular Weight	11.600kDa inclusive of tags
Tissue specificity	Monocytes and lymphocytes.
Form	Lyophilised: Add deionized water to prepare a working stock solution of approximately

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	0.5 mg/mL and let the lyophilized pellet dissolve completely. Filter the product by an appropriate sterile filter before using it in the cell culture.
Purity	by SDS-PAGE
Storage buffer	Preservative: None Constituents: 50mM Sodium chloride, 20mM Tris, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MKHHHHHHAS TKLEEHLEGI VNIFHQYSVR KGHFDTLSKG ELKQLLTKE ANTIKNIKDK AVIDEIFQGL DANQDEQVDFQEFISLVAIA LKAAHYHTHK E
Sequence Similarities	Belongs to the S-101 family. Contains 2 EF-hand domains.

GENE INFORMATION

Gene Name	S100A12 S100 calcium binding protein A12 [Homo sapiens]
Official Symbol	S100A12
Synonyms	S100A12; S100 calcium binding protein A12; S100 calcium binding protein A12 (calgranulin C) , S100 calcium binding protein A12 (calgranulin C); protein S100-A12; CAAF1; CAGC; CGRP; ENRAGE; MRP6; p6;
Gene ID	6283
mRNA Refseq	NM_005621
Protein Refseq	NP_005612

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MIM	603112
Uniprot ID	P80511
Chromosome Location	1q21
Pathway	Activated TLR4 signalling, organism-specific biosystem; Advanced glycosylation endproduct receptor signaling, organism-specific biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem; MyD88 cascade initiated on plasma membrane, organism-specific biosystem;
Function	RAGE receptor binding; RAGE receptor binding; calcium ion binding; protein binding; zinc ion binding;

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