

## Recombinant Human S100A12, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human S100A12 with an N terminal His tag; 101 amino acids with tag, predicted MWt: 11.6 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	91 amino acids
<b>Description</b>	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.
<b>Conjugation</b>	HIS
<b>Molecular Weight</b>	11.600kDa inclusive of tags
<b>Tissue specificity</b>	Monocytes and lymphocytes.
<b>Form</b>	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.
<b>Purity</b>	by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 50mM Sodium chloride, 20mM Tris, pH 7.5
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Sequences of amino acids</b>	MKHHHHHHAS TKLEEHLEGI VNIFHQYSVR KGHFDTLSKG ELKQLLTKE ANTIKNIKDK AVIDEIFQGL DANQDEQVDFQEFISLVAIA LKAAHYHTHK E
<b>Sequence Similarities</b>	Belongs to the S-101 family. Contains 2 EF-hand domains.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">S100A12</a> <a href="#">S100 calcium binding protein A12 [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">S100A12</a>
<b>Synonyms</b>	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;
<b>Gene ID</b>	<a href="#">6283</a>
<b>mRNA Refseq</b>	<a href="#">NM_005621</a>
<b>Protein Refseq</b>	<a href="#">NP_005612</a>

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<b>MIM</b>	603112
<b>Uniprot ID</b>	P80511
<b>Chromosome Location</b>	1q21
<b>Pathway</b>	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;
<b>Function</b>	RAGE receptor binding; RAGE receptor binding; calcium ion binding; protein binding; zinc ion binding;

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