

Recombinant Human S100A12, Fc-tagged

Cat. No. S100A12-215H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human S100A12 /CAGC MS Standard Protein, C13 and N15-labeled (S100A12, Heavy Labeled) Thr 2 - Glu 92 (Accession # NP_005612) was produced in human 293 cells (HEK293) with fully chemically defined cell culture medium to obtain >99% incorporation
Species	Human
Source	HEK293
ProteinLength	2-92 a.a.
Description	S100 calcium-binding protein A12 (S100A12) is also known as Extracellular newly identified RAGE-binding protein (EN-RAGE), Calgranulin-C (CAGC), Calcium-binding protein in amniotic fluid 1 (CAAF1), Migration inhibitory factor-related protein 6 (MRP-6), Neutrophil S100 protein, which contains two EF-hand domains and belongs to the S-101 family. S100A12 is homooligomer (tetramer or hexamer) in the presence of calcium, zinc and copper ions. S100A12 interacts with AGER and both calcium and zinc are essential for the interaction and also interacts with CACYBP in a calcium-dependent manner. S100A12 is a calcium-, zinc- and copper-binding protein which plays a prominent role in the regulation of inflammatory processes and immune response.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization.

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Molecular Mass	rh S100A12 /EN-RAGE, Heavy Labeled is fused with a human IgG1 Fc tag at the N-terminus, and has a calculated MW of 37.9 kDa. The predicted N-terminus is Met. DTT-reduced Protein migrates as 40 kDa in SDS-PAGE .rh S100A12, Heavy Labeled is labeled with [U
Endotoxin	Less than 1.0 EU per µg of the rh S100A12 /EN-RAGE, Heavy Labeled by the LAL method.
Purity	>85% as determined by SDS-PAGE.
Storage	Avoid repeated freeze-thaw cycles.No activity loss was observed after storage at:In lyophilized state for 1 year (4oC); After reconstitution under sterile conditions for 3 months (-70oC).
Reconstitution	See Certificate of Analysis for reconstitution instructions and specific concentrations.

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; EN-RAGE; calgranulin C; calgranulin-C; neutrophil S100 protein; calcium-binding protein in amniotic fluid 1; S100 calcium-binding protein A12 (calgranulin C); extracellular newly identified RAGE-binding protein;
Gene ID	6283

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mRNA Refseq	NM_005621
Protein Refseq	NP_005612
MIM	603112
UniProt ID	P80511
Chromosome Location	1q21
Pathway	Activated TLR4 signalling, organism-specific biosystem; Advanced glycosylation endproduct receptor signaling, organism-specific biosystem; Cytosolic sensors of pathogen-associated DNA, organism-specific biosystem; DAI mediated induction of type I IFNs, 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;