

Recombinant Human S100A12, His-tagged

Cat. No. S100A12-3721H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Total 101 AA. MW: 11.63 kDa (calculated). N-Terminal His-tag, 10 extra AA (highlighted).
Species	Human
Source	E.coli
Description	Protein S100-A12 is a protein that in humans is encoded by the S100A12 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.
Form	Filtered (0,4 µm) and lyophilized in 0.5 mg/mL in 20mM TRIS, 50mM NaCl, pH 7.5.
Reconstitution	Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.
Applications	Western blotting
Quality Control Test	BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein

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Sequences of amino acids	MKHHHHHHAS TKLEEHLEGI VNIFHQYSVR KGHFDTLSCG ELKQLLTKE ANTIKNIKDK AVIDEIFQGL DANQDEQVDF QEFISLVAIA LKAAHYHTHK E
Storage	Store lyophilized protein at -20°C. Lyophilized protein remains stable until the expiry date when stored at -20°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C.
Pathways	Activated TLR4 signalling; Advanced glycosylation endproduct receptor signaling; Innate Immunity Signaling; MyD88 cascade initiated on plasma membrane; MyD88 dependent cascade initiated on endosome; MyD88-independent cascade initiated on plasma membrane; NFkB and MAP kinases activation mediated by TLR4 signaling repertoire; RIG-I/MDA5 mediated induction of IFN-alpha/beta pathways; Signaling in Immune system; TAK1 activates NFkB by phosphorylation and activation of IKKs complex; TRAF6 Mediated Induction of proinflammatory cytokines; TRAF6 mediated NF-kB activation; TRAF6 mediated induction of NFkB and MAP kinases upon TLR7/8 or 9 activation; Toll Like Receptor 2 Cascade; Toll Like Receptor 3 (TLR3) Cascade
GENE INFORMATION	
Gene Name	S100A12 S100 calcium binding protein A12 [Homo sapiens]
Official Symbol	S100A12
Synonyms	S100A12; S100 calcium binding protein A12; p6; CAGC; CGRP; MRP6; CAAF1; ENRAGE; protein S100-A12; EN-RAGE; calgranulin C; calgranulin-C; OTTHUMP00000015332; neutrophil S100 protein; calcium-binding protein in amniotic fluid 1; S100 calcium-binding protein A12 (calgranulin C); extracellular newly identified RAGE-binding protein; S100 calcium binding protein A12 (calgranulin C); Protein

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S100-A12; Calcium-binding protein in amniotic fluid 1; Calgranulin-C; Extracellular newly identified RAGE-binding protein; Neutrophil S100 protein; S100 calcium-binding protein A12; Calcitermin

Gene ID [6283](#)

mRNA Refseq [NM_005621](#)

Protein Refseq [NP_005612](#)

MIM [603112](#)

UniProt ID [P80511](#)

Chromosome Location 1q21

Function RAGE receptor binding; RAGE receptor binding; calcium ion binding; protein binding; zinc ion binding

ProteinS100A12 PDB
1e8a

