Active Recombinant Human S100A8 (Met1-Glu93) and S100A9 (Thr2-Pro114) Heterodimer Protein

Cat. No. S100A8/S100A9-13H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human S100A8 (Met1-Glu93) and S100A9 (Thr2-Pro114) Heterodimer protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Glu93 (S100A8) & Thr2-Pro114 (S100A9)
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 may function in the inhibition of casein kinase and as a cytokine. Altered expression of this protein is associated with the disease cystic fibrosis. Multiple transcript variants encoding different isoforms have been found for this gene.
Form	Noncovalently-linked heterodimer
Bio-activity	Measured by its ability to induce IL-6 secretion by A375 human melanoma cells. The ED50 for this effect is 1.5-6 μg/mL.
Molecular Mass	Predicted Molecular Mass: 11 kDa (S100A8) & 13 kDa (S100A9)

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	SDS-PAGE: 9 kDa (S100A8) & 13 kDa (S100A9), reducing conditions
N-terminal Sequence Analysis	Met1 (S100A8) & Thr2 (S100A9)
Endotoxin	< 0.10 EU/μg of the protein by the LAL method.
Purity	> 95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS and DTT.
Reconstitution	Reconstitute at 500 μg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	S100A8 S100 calcium binding protein A8 [Homo sapiens (human)]
Official Symbol	S100A8
Synonyms	S100A8; S100 calcium binding protein A8; CAGA, CFAG, S100 calcium binding protein A8 (calgranulin A), S100 calcium binding protein A8 (calgranulin A); protein S100-A8; 60B8AG; CGLA; MRP8; P8; MRP-8; calgranulin A; calgranulin-A; cystic fibrosis antigen; calprotectin L1L subunit; urinary stone protein band A; leukocyte L1

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	complex light chain; migration inhibitory factor-related protein 8; S100 calcium-binding protein A8 (calgranulin A); MIF; NIF; CAGA; CFAG; L1Ag; CP-10; MA387;
Gene ID	6279
mRNA Refseq	NM_002964
Protein Refseq	NP_002955
MIM	123885
UniProt ID	P05109
Bioactivity	

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