Recombinant Human S100A8/S100A9 293 Cell Lysate

Cat. No. S100A8/S100A9-08HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human S100 calcium-binding protein A8 and A9 (S100A8-S100A9 fusion protein) overexpression cell lysate, derived from the transfected HEK293 cells. Purchase will also include one vial of normal control, the cell lysate of HEK293 cells transfected with empty expression vector.
Species	Human
Source	HEK293
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. 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 altered expression of this protein is associated with the disease cystic fibrosis. This

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	antimicrobial protein exhibits antifungal and antibacterial activity.
Form	Lyophilized powder
Molecular Mass	25 kDa
AA Sequence	S100A8: Leu2-Glu93, S100A9: Thr2-Pro114
Purity	Unpurified cell lysate. HEK293 cells transfected with expression vectors harboring target gene were harvested and washed with PBS twice. The cell pastes were re-suspended with ice-cold PBS containing mammalian cell protease inhibitor cocktail and further lysed with freeze-thaw cycles. After clarifying with 20,000 g centrifugation at 4Â°C for 30 min, the lysate was aliquoted, lyophilized, and stored at -80Â°C immediately. Protein concentration was determined by BCA kit using BSA as protein standard. The gene overexpression in lysate was confirmed by Western blotting using anti-His tag antibody and/or target-specific antibodies and the lysate derived from HEK293 cells transfected with the empty expression vector was used as a negative control.
Usage	This product is furnished for LABORATORY RESEARCH USE ONLY. Not for diagnostic or therapeutic use.
Storage	Upon arrival, the lyophilized protein may be stored for 2 weeks at centigrade. For long term storage, it is recommended to store desiccated below -20 centigrade in a manual defrost freezer. Following reconstitution, the protein may be stored for 2 weeks under sterile conditions at -20 centigrade. For long term storage, it is recommended to make appropriate aliquots and store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	Determined by BCA protein assay.

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Storage Buffer	Lyophilized from a 0.2 um filtered solution in PBS (pH 7.4) containing mammalian cell protease inhibitor cocktail.
Reconstitution	Briefly spin the vial and bring the contents to the bottom prior to opening. It is recommended to reconstitute at 0.5 - 1 mg/mL with sterile deionized water.
Shipping	Ice packs. Including one vial of HEK293 cell lysate transfected with empty expression vector.

GENE INFORMATION

Gene Name	S100A8 S100 calcium binding protein A8 [Homo sapiens (human)]&S100A9 S100 calcium binding protein A9 [Homo sapiens (human)]
Official Symbol	S100A8&S100A9
Synonyms	P8; MIF; NIF; CAGA; CFAG; CGLA; L1Ag; MRP8; CP-10; MA387; 60B8AG; S100-A8&MIF; NIF; P14; CAGB; CFAG; CGLB; L1AG; LIAG; MRP14; 60B8AG; MAC387; S100-A9
Gene ID	6279&6280
mRNA Refseq	NM_002964.5&NM_002965.4
Protein Refseq	NP_002955.2&NP_002956.1
MIM	123885&123886
UniProt ID	P05109&P06702

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