

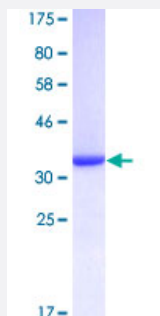
Full-Length

# S100A8 (Human) Recombinant Protein (P01)

Catalog # H00006279-P01

Size 25 ug, 10 ug

## Applications



## Specification

<b>Product Description</b>	Human S100A8 full-length ORF ( AAH05928.1, 1 a.a. - 93 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Sequence</b>	MLTELEKALNSIIDVYHKYSLIKGNFHAVYRDDLKLLLETECPQYIRKKGADVWFKELDINTDGAVNFQEFLILVIKMGVAAHKKSHKEESHKE
<b>Host</b>	Wheat Germ (in vitro)
<b>Theoretical MW (kDa)</b>	35.97
<b>Preparation Method</b>	<a href="#">in vitro wheat germ expression system</a>
<b>Purification</b>	Glutathione Sepharose 4 Fast Flow
<b>Quality Control Testing</b>	12.5% SDS-PAGE Stained with Coomassie Blue.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Storage Instruction</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — S100A8

Entrez GeneID	<a href="#">6279</a>
GeneBank Accession#	<a href="#">BC005928</a>
Protein Accession#	<a href="#">AAH05928.1</a>
Gene Name	S100A8
Gene Alias	60B8AG, CAGA, CFAG, CGLA, CP-10, L1Ag, MA387, MIF, MRP8, NIF, P8
Gene Description	S100 calcium binding protein A8
Omim ID	<a href="#">123885</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	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. [provided by RefSeq]
Other Designations	OTTHUMP00000015329 OTTHUMP00000015330 S100 calcium-binding protein A8 S100 calcium-binding protein A8 (calgranulin A) calgranulin A cystic fibrosis antigen

## Publication Reference

- [Melanocyte and melanoma cell activation by calprotectin.](#)

Shirley SH, von Maltzan K, Robbins PO, Kusewitt DF.

Journal of Skin Cancer 2014 Aug; 2014:846249.

Application: Cell Proliferation Assay, Human, Melanocyte, Melanoma cells

- [Predictive significance of kidney myeloid-related protein 8 expression in patients with obesity- or type 2 diabetes-associated kidney diseases.](#)

Kuwabara T, Mori K, Kasahara M, Yokoi H, Imamaki H, Ishii A, Koga K, Sugawara A, Yasuno S, Ueshima K, Morikawa T, Konishi Y, Imanishi M, Nishiyama A, Nakao K, Mukoyama M.

PLoS One 2014 Feb; 9(2):e88942.

Application: Incubated, Recombinant protein

- [In vivo targeting of inflammation-associated myeloid-related protein 8/14 via gadolinium immunonanoparticles.](#)

Maiseyeu A, Badgeley MA, Kampfrath T, Mihai G, Deiuliis JA, Liu C, Sun Q, Parthasarathy S, Simon DI, Croce K, Rajagopalan S.

Arteriosclerosis, Thrombosis, and Vascular Biology 2012 Apr; 32(4):962.

- [Chemotactic Activity of S100A7 \(Psoriasin\) Is Mediated by the Receptor for Advanced Glycation End Products and Potentiates Inflammation with Highly Homologous but Functionally Distinct S100A15.](#)

Wolf R, Howard OM, Dong HF, Voscopoulos C, Boeshans K, Winston J, Divi R, Gunsior M, Goldsmith P, Ahvazi B, Chavakis T, Oppenheim JJ, Yuspa SH.

Journal of Immunology 2008 Jul; 181(2):1499.

- [Cationic polypeptides are required for anti-HIV-1 activity of human vaginal fluid.](#)

Venkataraman N, Cole AL, Svoboda P, Pohl J, Cole AM.

Journal of Immunology 2005 Dec; 175(11):7560.

Application: WB, Human, Human vaginal fluid

## Disease

- [Aggressive Periodontitis](#)
- [Dermatitis](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Calculi](#)
- [Periodontitis](#)