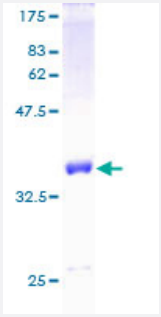
Full-Length

S100A1 (Human) Recombinant Protein (P01)

Catalog # H00006271-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human S100A1 full-length ORF (AAH14392, 1 a.a. - 94 a.a.) recombinant protein with GST-tag at N -terminal.
Sequence	MGSELETAMETLINVFHAHSGKEGDKYKLSKKELKELLQTELSGFLDAQKDVDAVDKVMKELDE NGDGEVDFQEYVVLVAALTVACNNFFWENS
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.08
Interspecies Antigen Sequence	Mouse (94); Rat (94)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	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 — S100A1

Entrez GeneID	6271
GeneBank Accession#	BC014392
Protein Accession#	AAH14392
Gene Name	S100A1
Gene Alias	S100, S100-alpha, S100A
Gene Description	S100 calcium binding protein A1
Omim ID	176940
Gene Ontology	Hyperlink
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 stimulation of Ca2+-induced Ca2+ release, inhibition of microtubule assembly, and inhibition of protein kinase C-mediated phosphorylation. Reduced expression of this protein has been implicated in cardiomyopathies. [provided by RefSeq
Other Designations	OTTHUMP00000035100|S100 alpha|S100 calcium-binding protein A1|S100 protein, alpha polypeptide

Publication Reference

- Dorsal root ganglia in Friedreich ataxia: satellite cell proliferation and inflammation.

  Koeppen AH, Ramirez RL, Becker AB, Mazurkiewicz JE.

  Acta Neuropathologica Communications 2016 May; 4(1):46.

  Application : IHC-P, Human, Dorsal root ganglia

Disease

- Breast cancer
- Breast Neoplasms
- Dermatitis
- DNA Damage
- Genetic Predisposition to Disease