

Recombinant Human S100A4, His-tagged

Cat. No. S100A4-3727H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Total 110 AA. MW: 12.84 kDa (calculated). N-Terminal His-tag, 10 extra AA (highlighted).
Species	Human
Source	E.coli
Description	Protein S100-A4 is a protein that in humans is encoded by the S100A4 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 motility, invasion, and tubulin polymerization. Chromosomal rearrangements and altered expression of this gene have been implicated in tumor metastasis. Multiple alternatively spliced variants, encoding the same protein, have been identified.
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

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Quality Control Test	BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein
Sequences of amino acids	MKHHHHHHAS ACPLEKALDV MVSTFHKYSG KEGDKFKLNK SELKELLTRE LPSFLGKRTD EAAFQKLMSN LDSNRDNEVD FQEYCVFLSC IAMMCNEFFE GFPDKQPRKK
Storage	Store lyophilized protein at -80°C. Lyophilized protein remains stable until the expiry date when stored at -80°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 week.
GENE INFORMATION	
Gene Name	S100A4 S100 calcium binding protein A4 [Homo sapiens]
Official Symbol	S100A4
Synonyms	S100A4; S100 calcium binding protein A4; 42A; 18A2; CAPL; FSP1; MTS1; P9KA; PEL98; protein S100-A4; protein Mts1; OTTHUMP00000015467; OTTHUMP00000015468; fibroblast-specific protein-1; placental calcium-binding protein; malignant transformation suppression 1; leukemia multidrug resistance associated protein; S100 calcium-binding protein A4 (calcium protein, calvasculin, metastasin, murine placental homolog); S100 calcium binding protein A4 (calcium protein, calvasculin, metastasin, murine placental homolog); Protein S100-A4; Calvasculin; Metastasin; Placental calcium-binding protein; Protein Mts1; S100 calcium-binding protein A4
Gene ID	6275
mRNA Refseq	NM_002961

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Protein Refseq	NP_002952
MIM	114210
UniProt ID	P26447
Chromosome Location	1q12-q22
Function	RAGE receptor binding; calcium ion binding; calcium-dependent protein binding; identical protein binding; protein binding
Protein S100A4 PDB1m31	