

## Recombinant Mouse S100a10 Protein, His-tagged

**Cat. No.** S100a10-383M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant mouse S100A10, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Description</b>	S100A10 also known as S100 calcium binding protein A10 is a group of small Ca <sup>2+</sup> binding proteins with molecular weight of 10-12 kDa. Intracellular S100 proteins usually function as modulators of their target proteins, and exert various roles such as regulation of protein phosphorylation, enzyme activity, Ca <sup>2+</sup> homeostasis, cytoskeleton components, and transcription factors. Recent research suggests a role for S100A10 as a prognostic marker and potential therapeutic target in colorectal cancer.
<b>Source</b>	E.coli
<b>Species</b>	Mouse
<b>Tag</b>	His
<b>Form</b>	Liquid. In phosphate buffered saline (pH 7.4) containing 10% glycerol.
<b>Molecular Mass</b>	13.6 kDa (120aa)
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSMPSQMEH AMETMMLTFH RFAGDKDHLT KEDLRVLMER EFPGFLENQK DPLAVDKIMK DLDQCRDGKV GFQSFLSLVA GLTIACNDYF VVNMKQKGKK
<b>Purity</b>	>90% by SDS-PAGE

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**Storage** Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

**Concentration** 1 mg/ml (determined by Bradford assay)

## GENE INFORMATION

<b>Gene Name</b>	S100a10 S100 calcium binding protein A10 (calpactin) [ <i>Mus musculus</i> ]
<b>Official Symbol</b>	S100a10
<b>Synonyms</b>	S100A10; S100 calcium binding protein A10 (calpactin); protein S100-A10; calpactin I light chain; calpactin-1 light chain; cellular ligand of annexin II; S100 calcium-binding protein A10; calcium binding protein A11 (calgizzarin); S100 calcium binding protein A10 (calgizzarin); 42C; p10; p11; CAL12; CLP11; Cal1I; AA409961; AL024248;
<b>Gene ID</b>	20194
<b>mRNA Refseq</b>	NM_009112
<b>Protein Refseq</b>	NP_033138
<b>MIM</b>	
<b>UniProt ID</b>	
<b>Pathway</b>	Prostaglandin Synthesis and Regulation, organism-specific biosystem;
<b>Function</b>	calcium ion binding;

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