

Recombinant Mouse S100 Calcium Binding Protein A3, His-tagged

Cat. No. S100a3-6962M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse S100a3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Mouse
Source	E.coli
ProteinLength	1-101aa
Description	S100a3 belongs to the S-100 family of proteins containing 2 EF-hand calcium-binding motifs. The S100 proteins act as multifunctional signaling factors that are involved in the regulation of diverse cellular processes such as cell cycle progression and differentiation. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells. This protein has the highest content of cysteines of all S100 proteins, has a high affinity for Zinc, and is highly expressed in human hair cuticle.
Form	Liquid. In 20 mM Tris-HCl buffer, pH8.0, 10% glycerol, 2mM DTT, 150mM NaCl.
Molecular Mass	14.3kDa (125aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMTTRPLE QAVAAIVCTF QEYAGRCGDK YKICQSELKE LLQKELPTWT PSEFRECDYN KFMSVLDTNK DCEVDFGEYV RSLASLCLYC HEYFKECPPE PPCPQ

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Purity	>95% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	S100a3 S100 calcium binding protein A3 [<i>Mus musculus</i>]
Official Symbol	S100a3
Synonyms	S100A3; S100 calcium binding protein A3; protein S100-A3; S100 calcium-binding protein A3; S100E;
Gene ID	20197
mRNA Refseq	NM_011310
Protein Refseq	NP_035440
Function	calcium ion binding; metal ion binding;

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