

# Product information



## S100A3, 1-101aa

Mouse, His-tagged, Recombinant, *E.coli*

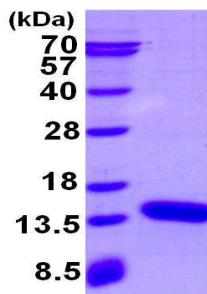
Cat. No. IBATGP1652

**Full name:** S100 calcium binding protein A3

**NCBI Accession No.:** NP\_035440

**Synonyms:** S100E

**Description:** S100A3, also known as Protein S-100E and S100 calcium-binding protein A3, 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. Recombinant mouse S100A3 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

<p><b>Form:</b> Liquid. In 20 mM Tris-HCl buffer, pH8.0, 10% glycerol, 2mM DTT, 150mM NaCl</p> <p><b>Molecular Weight:</b> 14.3kDa (125aa), confirmed by MALDI-TOF</p> <p><b>Purity:</b> &gt; 95% by SDS - PAGE</p> <p><b>Concentration:</b> 1mg/ml (determined by Bradford assay)</p>	 <p>15% SDS-PAGE (3ug)</p>
<p><b>Sequences of amino acids:</b></p> <p><u>MGSSHHHHHH</u> <u>SSGLVPRGSH</u> <u>MGSHMTRPLE</u> <u>QAVAAIVCTF</u> <u>QEYAGRCGDK</u> <u>YKICQSELKE</u> <u>LLQKELPTWT</u> <u>PSEFRECDYN</u> <u>KFMSVLDTNK</u> <u>DCEVDFGEYV</u> <u>RSLASLCLYC</u> <u>HEYFKECPPE</u> <u>PPCPQ</u></p>	

### General references:

Streicher WW, *et al.* (2010) *Biophys Chem.* 151(3):181-6.

Yao R, *et al.* (2007) *Anticancer Res.* 27(5A):3051-8.

**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.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



Manufactured for:

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