

**S100A3, 1-101aa, Human, His tag, E.coli**

**Cat.NO.: TP03826**

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3th Edition

**Synonyms:**S100 calcium binding protein A3, S100E

**Description:**S100A3 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. S100A3 binds calcium with low affinity and zinc with high affinity and is believed to play a role in the calcium-dependent differentiation of cuticle cells and in the formation of hair shafts.

**Form:**Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 20% glycerol, 2mM DTT, 0.2M NaCl.

**Molecular Weight:**13.9 kDa (121aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMARPLEQAVAAIVCTFQEYAGRCGDKYKLCQAEKELLQKELATWTPTEFRECD  
YNKFMSVLDTNKDCEVDFVEYVRSACLCLYCHEYFKDCPSEPPCSQ

**Purity:**> 95% by HPLC

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

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.