

AR50476PU-S

Mouse S100A3 (1-101, His-tag) - Purified

Alternate names:

S-100E, S100 calcium-binding protein A3, S100-A3, S100E

Quantity:

0.1 mg

Concentration:

1mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[P62818](#)

NCBI:

[NP_035440.1](#)

GeneID:

[20197](#)

Species:

Mouse

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >95% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer, pH8.0, 10% glycerol, 2mM DTT, 150mM NaCl

Description:

Recombinant mouse S100A3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SSGLVPRGSH MGSMTTRPLE QAVAAIVCTF QEYAGRCGDK YKICQSELKE
LLQKELPTWT PSEFRECYN KFMVLDNTK DCEVDFGEYV RSLASLCLYC HEYFKECPPE PPCPQ

Molecular weight: 14.3 kDa (125aa), confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Streicher WW, et al. (2010) Biophys Chem. 151(3):181-6. Yao R, et al. (2007) Anticancer Res. 27(5A):3051-8.

Pictures:

