

Catalogue number: G02S1A09
Product name: S100A9
Product details: Human, Recombinant, full length, C3S mutant.
Folding state checked by NMR.

Technical Specifications

Rev. date: 06/2013

Date

Quantity

Batch number

DESCRIPTION

MW = 13.2 kDa (calculated for monomer). Full length S100A9 (S100 Calcium Binding Protein A9, Calgranulin-B, Calprotectin L1H subunit, Leukocyte L1 complex heavy chain, Migration inhibitory factor-related protein 14, MRP-14, p14) cloned from human cDNA, expressed in *E. coli*. The protein consists of the human S100A9 (residues 1-114, swissprot accession P06702) with a mutation at position 3: Cys3Ser. Mass spectrometry (MALDI) showed that the first aminoacid (Met) is almost completely processed during the expression. The real mass of the protein is 13.1 kDa with traces of unprocessed protein of 13.2 kDa.

PURITY

> 95% by SDS-PAGE. The protein was observed as a single band migrating at apparent molecular weight between 8.7 and 14 kDa

SUPPLIED AS

1 mg/ml in Tris-HCl 10mM, pH 7.5, NaCl 100mM, CaCl₂ 1mM. The concentration is calculated from the absorbance at 280nm ($\epsilon_{280} = 6990 \text{ M}^{-1}\text{cm}^{-1}$).

CHARACTERISTICS

The protein is in the calcium loaded form. Under the above described conditions, to avoid precipitation or protein oligomerization, the product can be concentrated to a maximum of 0.5mM.

STORAGE

-20°C. After initial defrost, aliquot product into individual tubes and refreeze at -20°C. Avoid repeated freeze/defrost cycles.

REFERENCES

- Yao, R., et al. *Anticancer Res.* 2007 Sep-Oct;27(5A):3051-8.
Nacken, W., *FEBS Lett.* 2007 Oct 30;581(26):5127-30. Epub 2007 Oct 8.
Ikemoto, M., *Clin Chim Acta.* 2007 Feb;376(1-2):197-204. Epub 2006 Aug 24.
Itou, H., *J Mol Biol.* 2002 Feb 15;316(2):265-76.



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