

PRODUCT DATA

Last rev: 28/04/2010

S100A9 – Human, Recombinant, C3S mutant. Folding state checked by NMR.

CATALOG NO.: 201SA09

DESCRIPTION: MW = 13.2 kDa (calculated). Full length S100A9 (S100 Calcium Binding Protein A9) cloned from human cDNA, expressed in *E. coli*. The protein consists of the human S100A9 (residues 1-114) 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 (ProtEra protein MW marker Cat# PMA00109)

SUPPLIED AS: 1 mg/ml in Tris-HCl 10mM, NaCl 100mM pH 7.5 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. The protein is stable at 4 °C for at least 3 days and at 25 °C for at least several hours. 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.
