PRODUCT INFORMATION

Expression system E.coli

Domain 1-99aa

UniProt No. Q8WXG8

NCBI Accession No. NP_570128

Alternative Names

Protein S100-Z, S100-zeta, Protein S100-Z Gm625, Protein S100 Z, S100 calcium binding protein Z, S100 calcium binding protein zeta.

PRODUCT SPECIFICATION

Molecular Weight

13.7 kDa (119aa) confirmed by MALDI-TOF

Concentration 1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 1mM EDTA, 50mM NaCl

Purity > 95% by SDS-PAGE

Tag His-Tag

Application SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

S100 calcium binding protein Z, also known as S100Z, is member of the S100 protein family. S100 proteins are small dimeric members of the EF-hand superfamily of Ca (2+) binding proteins thought to participate in mediating intracellular Ca (2+) signals by binding to and thereby regulating target proteins in a Ca (2+) - dependent manner. There are differences in the expression level of S100Z mRNA in various tissues. The highest levels were found in spleen and leukocytes. S100Z gene expression appears to be deregulated in some tumor



tissues, compared to expression in their normal counterparts. Recombinant human S100Z, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MPTQLEMAMD TMIRIFHRYS GKERKRFKLS KGELKLLLQR ELTEFLSCQK ETQLVDKIVQ DLDANKDNEV DFNEFVVMVA ALTVACNDYF VEQLKKKGK

General References

Zhou Y., et al. (2006) Proteins. 65(3):643-55. Hoque CW., et al. (1992) J Biol Chem. 267(19):13340-7.

DATA



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)

