

# Recombinant human S100Z protein

Catalog Number: ATGP0588

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-99aa

### UniProt No.

Q8WYG8

### 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

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### 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

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### 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

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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 SGLVPRGSH MPTQLEMAMD TMIRIFHRYG GKERKRFKLS KGELKLLLQR ELTEFLSCQK ETQLVDKIVQ  
DL DANKDNEV DFNEFVVMVA ALTVACNDYF VEQLKKKGK

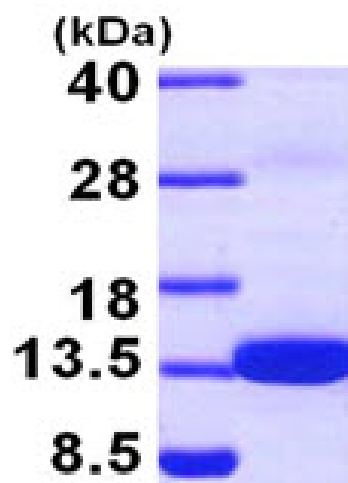
### General References

Zhou Y., et al. (2006) *Proteins*. 65(3):643-55.

Hoque CW., et al. (1992) *J Biol Chem*. 267(19):13340-7.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3 $\mu$ g)