

Recombinant human S100Z protein

Catalog Number: ATGP0588

PRODUCT INFORMATION

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

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

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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 SSGLVPRGSH MPTQLEMAMD TMIRIFHRYG GKERKRFKLS KGELKLLLQR ELTEFLSCQK ETQLVDKIVQ
DLDANKDNEV DFNEFVVMVA ALTVACNDYF VEQLKKKGK

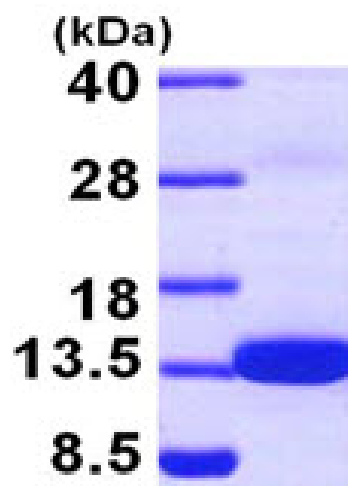
General References

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

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

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)