

Recombinant HumanS100 calcium binding protein Z

Cat. No. S100Z-206H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human S100Z contains 99 amino acids and has a molecular mass of 11.5 kDa, produced in <i>E.Coli</i> .
Species	Human
Source	E.coli
Description	S100Z is a recently discovered 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. S100Z is a 99-amino acid protein capable of interacting with another member of the family, S100P. 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.
Amino Acid Sequence	MPTQLEMAMD TMIRIFHRYS GKARKRFKLS KGELKLLLQR ELTEFLSCQK ETQLVDKIVQ DLDANKDNEV DFNEFVVMVA ALTVACNDYF VEQLKKKGK.
Specificity	The recombinant human S100Z is 100% homologous with the human S100Z.
Purification Method	Two-step procedure using anion-exchange and size exclusion chromatography.
Stability/Shelf Life	The lyophilized protein remains stable until the expiry date when stored at -20°C.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	>95% (SDS-PAGE analyzed).
Formulation	Sterile filtered and lyophilized from 0.5 mg/ml in 0.05M Phosphate buffer pH7.2, 0.1M NaCl.
Applications	Western blotting.
Storage	Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.

GENE INFORMATION

Gene Name	S100Z S100 calcium binding protein Z [Homo sapiens]
Synonyms	S100 calcium binding protein Z; S100 calcium-binding protein Z; S100 calcium binding protein, zeta; Gm625; S100-zeta; S100Z
Gene ID	170591
mRNA Refseq	NM_130772
Protein Refseq	NP_570128
MIM	610103
UniProt ID	Q8WYG8
Function	calcium ion binding

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA