

## Recombinant Human S100 calcium binding protein Z

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

### SPECIFICATION

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

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<b>Purity</b>	>95% (SDS-PAGE analyzed).
<b>Formulation</b>	Sterile filtered and lyophilized from 0.5 mg/ml in 0.05M Phosphate buffer pH7.2, 0.1M NaCl.
<b>Applications</b>	Western blotting.
<b>Storage</b>	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

<b>Gene Name</b>	<a href="#">S100Z S100 calcium binding protein Z [ Homo sapiens ]</a>
<b>Synonyms</b>	S100 calcium binding protein Z; S100 calcium-binding protein Z; S100 calcium binding protein, zeta; Gm625; S100-zeta; S100Z
<b>Gene ID</b>	<a href="#">170591</a>
<b>mRNA Refseq</b>	<a href="#">NM_130772</a>
<b>Protein Refseq</b>	<a href="#">NP_570128</a>
<b>MIM</b>	<a href="#">610103</a>
<b>UniProt ID</b>	<a href="#">Q8WYG8</a>
<b>Function</b>	<a href="#">calcium ion binding</a>

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