

Recombinant Human S100 Calcium Binding Protein Z, His-tagged

Cat. No. S100Z-2581H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human S100Z, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
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.
Sequences	MGSSHHHHHH SSGLVPRGSH MPTQLEMAMD TMIRIFHRYS GKERKRFKLS KGELKLLQQR ELTEFLSCQK ETQLVDKIVQ DLDANKDNEV DFNEFVVMVA ALTVACNDYF VEQLKKKGK.
Molecular Weight	13.7 kDa (119aa), confirmed by MALDI-TOF.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 1mM

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	EDTA, 50mM NaCl.
Purity	> 95% by SDS – PAGE.
Concentration	1mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	S100Z S100 calcium binding protein Z [Homo sapiens]
Synonyms	S100Z; S100 calcium binding protein Z; Gm625; S100-zeta; protein S100-Z; S100 calcium-binding protein Z; protein S100-Z; S100 calcium binding protein, zeta
Gene ID	170591
mRNA Refseq	NM_130772
Protein Refseq	NP_570128
MIM	610103
UniProt ID	Q8WYG8
Chromosome Location	5q13.3
Function	calcium ion binding