



Product Datasheet

Product Name	S100Z Human Recombinant
Cata No	CB501046
Source	<i>Escherichia Coli.</i>
Synonyms	Protein S100-Z, S100 calcium-binding protein Z, S100Z, Gm625, S100-zeta.

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.

The Recombinant Human S100Z is an 11.5 kDa protein containing 99 amino acid residues of the human S100Z.

MPTQLEMAMD TMIRIFHRYS GKARKRFKLS
KGELKLLLQR ELTEFLSCQKETQLVDKIVQ
DLDANKDNEV DFNEFVVMVA ALTVACNDYF
VEQLKKKGK

Purity

Greater than 95% as determined by SDS-PAGE.

Formulation

Sterile filtered and lyophilized from 0.5 mg/ml in 0.05M Phosphate buffer pH7.2, 0.1M NaCl

Reconstitution

Add 0.2 ml of deionized H₂O and let the lyophilized pellet dissolve completely.

Stability

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. The lyophilized protein remains stable until the expiry date when stored at -20°C.

Applications

Western blotting