

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### HSP10 (K80) Peptide

Cat No.: BS1175P

#### Background

The heat shock proteins (HSPs) comprise a group of highly conserved, abundantly expressed proteins with diverse functions, including the assembly and sequestering of multiprotein complexes, transportation of nascent polypeptide chains across cellular membranes and regulation of protein folding. Heat shock proteins (also known as molecular chaperones) fall into six general families: HSP 90, HSP 70, HSP 60, the low molecular weight HSPs, the immunophilins and the HSP 110 family. The low molecular weight family includes HSP 10, HSP 20, HSP 27 (Heme Oxygenase 1), HSP 32 and HSP 40. Chaperonins are ubiquitous, indispensable proteins that facilitate protein folding in an ATP-dependent manner, enhancing the yield of properly folded substrate protein under conditions where spontaneous folding does not occur. Chaperonins are typified by the E. coli heat-shock proteins GroEL and GroES (HSP 10). HSP 10 is a heptameric ring of identical 10 kDa subunits that binds to each end of GroEL to form a symmetric, functional heterodimer.

#### Swiss-Prot

P61604

#### Applications

Blocking

#### Specificity

This peptide can be used with studies using BS1175 HSP10 (K80) pAb.

#### Purification & Purity

Synthetic peptide HSP10 (K80). (Note: the amino acid sequence is proprietary). The purity is > 98%.

#### Product

1 mg/ml in DI water.

#### Storage & Stability

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

#### Research Use

For research use only, not for use in diagnostic procedure.