

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### TEF-1 Peptide

Cat No.: BS5961P

#### Background

A member of the TEA/ATTS domain family, Transcriptional enhancer factor 1 (TEF-1) is a nuclear protein that is expressed in numerous cell types and plays a role in controlling the expression of numerous genes. TEF family members have a highly conserved DNA-binding domain; TEF-1 binds to GT-IIC, SphI/II and M-CAT. TEF-1 also binds to the proximal regulatory element (PRE) of transforming growth factor-alpha, a member of the EGF family that is overexpressed in many types of cancer. Furthermore, TEF-1 represses transcription in placental cells. In vitro, TEF-1 is phosphorylated by several PKC isozymes. TEF-1 is phosphorylated in vivo at serine and threonine residues. Phosphorylation of TEF-1, both in vivo and in vitro, results in a reduction in its DNA-binding capability, which suggests a potential role for TEF-1 in PKC inhibition. TEF-1 also complexes with larger tumor antigen (TA<sub>g</sub>), and may thus have a role in tumorigenesis. Dimerization of TEF-1 may be important for TEF-1 to function as a regulator of gene transcription.

#### Swiss-Prot

P28347

#### Applications

Blocking

#### Specificity

This peptide can be used with studies using BS5961 TEF-1 pAb.

#### Purification & Purity

Synthetic peptide TEF-1. (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.