

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### eIF2 $\alpha$ (I45) Peptide

Cat No.: BS3651P

#### Background

eIF2 $\alpha$ , also known as EIF2S1 or EIF2, is a 315 amino acid subunit of the eukaryotic initiation complex that functions to bind tRNA to the 40S ribosomal subunit (in a GTP-dependent manner), thereby initiating translation. In addition, the phosphorylation state of eIF2 $\alpha$  controls the rate of tRNA translation. When eIF2 $\alpha$  is not phosphorylated, translation occurs at a normal rate. However, upon phosphorylation by one of several kinases, eIF2 $\alpha$  is stabilized, thus preventing the GDP/GTP exchange reaction and slowing translation.

#### Swiss-Prot

P05198

#### Applications

Blocking

#### Specificity

This peptide can be used with studies using BS3651 eIF2 $\alpha$  (I45) pAb.

#### Purification & Purity

Synthetic peptide eIF2 $\alpha$  (I45). (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.