

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### HIF-1 $\alpha$ (K377) Peptide

Cat No.: BS3514P

#### Background

Cell growth and viability is compromised by oxygen deprivation (hypoxia). Hypoxia-inducible factors, including HIF-1 $\alpha$ , Arnt 1 (also designated HIF-1 $\beta$ ), EPAS-1 (also designated HIF-2 $\alpha$ ) and HIF-3 $\alpha$ , induce glycolysis, erythropoiesis and angiogenesis in order to restore oxygen homeostasis. Hypoxia-inducible factors are members of the Per-Arnt-Sim (PAS) domain transcription factor family. In response to hypoxia, HIF-1 $\alpha$  is upregulated and forms a heterodimer with Arnt 1 to form the HIF-1 complex. The HIF-1 complex recognizes and binds to the hypoxia responsive element (HRE) of hypoxia-inducible genes, thereby activating transcription.

#### Swiss-Prot

Q16665

#### Applications

Blocking

#### Specificity

This peptide can be used with studies using BS3514 HIF-1 $\alpha$  (K377) pAb.

#### Purification & Purity

Synthetic peptide HIF-1 $\alpha$  (K377). (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.

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