

## HIF1A Human (85 a.a.)

**Description:** HIF1A Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 105 amino acids (1-85 a.a.) and having a molecular mass of 11.8 kDa. The HIF1A is fused to 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-265

For research use only.

**Synonyms:** Hypoxia-inducible factor 1 alpha, HIF-1 alpha, HIF1 alpha, ARNT-interacting protein, Member of PAS protein 1, Basic-helix-loop-helix-PAS protein MOP1, HIF1A, MOP1, HIF1, PASD8, HIF-1A.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSHMEGAGGANDK KISSERRKE  
KSRDAARSRR SKSEVFYEL AHQLPLPHNV SSHLDKASVM RLTISYLRVR KLLDAGDLDI  
EDDMK.

**Purity:** Greater than 80.0% as determined by SDS-PAGE.

**Formulation:**

HIF1A Human (0.25mg/ml) solution containing 20mM Tris buffer(pH 8.0), 20% glycerol, 1mM DTT, 0.2M NaCl and 1mM EDTA.

**Stability:**

HIF1A Human although stable at 4°C for 1 week, should be stored desiccated below -18°C.  
Please prevent freeze thaw cycles.

**Usage:**

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**Introduction:**

HIF1A has a role as a master transcriptional monitor of the adaptive response to hypoxia. Under hypoxic conditions HIF1A activates the transcription of over 40 genes, including, erythropoietin, glucose transporters, glycolytic enzymes, vascular endothelial growth factor, and genes whose protein products increase oxygen release or facilitate metabolic adaptation to hypoxia. HIF1A functions as an essential role in embryonic vascularization, tumor angiogenesis and pathophysiology of ischemic disease.

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