Catalog Number: 230-30007



## Recombinant Hypoxia-inducible factor 1-alpha (HIF-1-alpha)

#### Source

**Species** Human **Accession Number** Q16665 Gene Symbol HIF1A Gene ID 3091

**Expressed Region** Leu400-Asn826

> Hypoxia-inducible factor 1-alpha, HIF-1-alpha, HIF1-alpha, ARNT-interacting protein, Basichelix-loop-helix-PAS protein MOP1, Class E basic helix-loop-helix protein 78, bHLHe78, Member of PAS protein 1, PAS domain-containing protein 8, Hypoxia Inducible Factor 1, Alpha Subunit, Basic Helix-Loop-Helix Transcription Factor, HIF-1alpha, MOP1, HIF1, ARNT Interacting Protein, Hypoxia-Inducible Factor 1 Alpha Isoform I.3, PASD8, Hypoxia-Inducible Factor1alpha, Member

Of PAS Superfamily 1, PAS Domain-Containing Protein 8, BHLHE78, HIF-1A

## **Preparation**

**Synonyms** 

**Expression System** Human Embryonic Kidney 293 Cells

Tag N-terminal 6x histidine tag

**Purification** His-tag affinity purification by immobilized metal ion affinity chromatography (IMAC)

**Purity** > 90%

**Purity Determined By** SDS-PAGE under reducing conditions and visualized by Coomassie blue staining

> The recombinant human HIF-1-alpha, C-terminal domain, has a calculated molecular mass of 49 kDa. Due to the abundant post-translation modifications, it migrates as approximately 60-80 kDa protein bands (confirmed by Western blotting) in SDS-PAGE under DTT, beta-mercaptoethanol

reducing conditions.

#### **Protein Specifications**

**Molecular Weight** 

**Format** Lyophilized powder

**Formulation** Lyophilized from a 0.2 um filtered solution in PBS

Concentration Determined by BCA protein assay kit (Thermo Scientific)

Preservative None

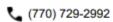
**Endotoxin Level** Not determined

ELISA, EIA, protein-protein interaction studies, Western Blotting, Dot Blotting, **Recommended Applications** 

Immunoprecipitation, Protein Array

Briefly spin the vial and bring the contents to the bottom prior to opening. It is recommended to Reconstitution

reconstitute at 0.5 - 1.0 mg/mL with sterile deionized water or 1x PBS.



# SDS-PAGE Image

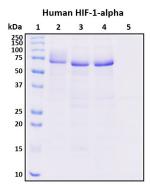


Figure 1. Deglycosylation of purified recombinant proteins. Purified proteins were untreated (Lane 2) or treated with protein deglycosylation enzymes under native (Lane 3) or reducing (Lane 4) conditions. Deglycosylation treatment resulted in a mobility shift of the protein to produce one major band at the expected size, thus indicating that the untreated recombinant protein (Lane 2) was glycosylated.

Lane 1: Protein standard ladder (kDa).

Lane 2: Untreated protein under reducing conditions.

Lane 3: Treated protein with deglycosylation enzymes under native conditions.

Lane 4: Treated protein with deglycosylation enzymes under reducing conditions.

Lane 5: Deglycosylation mixture only without target proteins.

## **Shipping**

Ice packs

### Storage/Stability

Upon arrival, the lyophilized protein may be stored for 2 weeks at 4°C. For long term storage, it is recommended to store desiccated below -20 °C in a manual defrost freezer. Following reconstitution, the protein may be stored for 2 weeks under sterile conditions at -20 °C. For long term storage, it is recommended to make appropriate aliquots and store at -80 °C. Avoid repeated freeze-thaw cycles.

This product is furnished for LABORATORY RESEARCH USE ONLY.

Not for diagnostic or therapeutic use.



