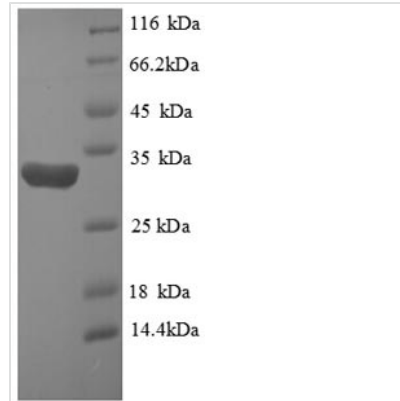




# Recombinant Human Hypoxia-inducible factor 1-alpha (HIF1A), partial

<b>Product Code</b>	CSB-EP624113HU
<b>Relevance</b>	Functions as a master transcriptional regulator of the adaptive response to hypoxia. Under hypoxic conditions, activates the transcription of over 40 genes, including erythropoietin, glucose transporters, glycolytic enzymes, vascular endothelial growth factor, HILPDA, and other genes whose protein products increase oxygen delivery or facilitate metabolic adaptation to hypoxia. Plays an essential role in embryonic vascularization, tumor angiogenesis and pathophysiology of ischemic disease. Binds to core DNA sequence 5'-[AG]CGTG-3' within the hypoxia response element (HRE) of target gene promoters. Activation requires recruitment of transcriptional coactivators such as CREBBP and EP300. Activity is enhanced by interaction with both, NCOA1 or NCOA2. Interaction with redox regulatory protein APEX1 leads to activate CTAD and potentiates activation by NCOA1 and CREBBP. Involved in the axonal distribution and transport of mitochondria in neurons during hypoxia
<b>Abbreviation</b>	Recombinant Human HIF1A protein, partial
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q16665
<b>Product Type</b>	Recombinant Proteins
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	QLSPLESSSASPESASPQSTVTVFQQTQIQEPTANATTTTATTDELKTVTKDR MEDIKILIASPSPTHIHKETTSATSSPYRDTQSRTASPNRAGKGVIEQTEKSHPR SPNVLSVALSQRRTVPEEELNPKILALQNAQRKRKMEHDGSLFQAVGIGTLLQ QPDDHAATTSLSWKRVKGGCKSSEQNGMEQKTIILIPSDLACRLLGQSMDESGL PQLTSYDCEVNAPIQGSRNLLQGEELLRALDQVN
<b>Research Area</b>	Transcription
<b>Source</b>	E.coli
<b>Target Names</b>	HIF1A
<b>Expression Region</b>	579-826aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-tagged
<b>Mol. Weight</b>	31.0kDa

**Protein Length****Partial****Image**

(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

**Shelf Life**

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