

## Recombinant Human HIF1A protein, GST-tagged

**Cat. No.** HIF1A-198H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b> | Recombinant Human HIF1A(574-799aa) fused with GST tag at N-terminal was expressed in E. coli.                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | 574-799aa                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Form</b>             | Protein lyophilized in sterile PBS (58 mM Na <sub>2</sub> HPO <sub>4</sub> , 17 mM NaH <sub>2</sub> PO <sub>4</sub> , 68 mM NaCl, 100 mM GSH, pH 8.0). Trehalose (5-8%) and mannitol (5-8%) protectants were added before lyophilization.                                                                                                                                      |
| <b>AA Sequence</b>      | LRSFDQLSPLESSSASPESASPQSTVTVFQQTQIQEPTANATTTTATTDDELKTVTKD<br>RMEDIKILIASPSPTHIH KETTSATSSPYRDTQSRTASPNRAGKGVIEQTEKSHPRSP<br>NVLSVALSQRTTVPEEELNPKILALQNAQRKRKME HDGSLFQAVGIGITLLQQPDDH<br>AATTSLSWKRVKGCKSSEQNGMEQKTIILIPSDLACRLLGQSMDESGLPQLTSY D                                                                                                                            |
| <b>Purity</b>           | > 90%, by SDS-PAGE with Coomassie Brilliant Blue staining.                                                                                                                                                                                                                                                                                                                     |
| <b>Storage</b>          | Store for up to 12 months at -20 centigrade to -80 centigrade as lyophilized powder.Storage of Reconstituted Protein:Short-term storage: Store at 2-8 centigrade for two weeks.Long-term storage: Aliquot and store at -20 centigrade to -80 centigrade for up to 6 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles. |

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**Reconstitution**

Reconstitute at 0.25 g/μl in 200 μl sterile water for short-term storage. Reconstitution with 200 μl 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.

**Shipping**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## GENE INFORMATION

**Gene Name** HIF1A hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor) [ Homo sapiens ]

**Official Symbol** HIF1A

**Synonyms** HIF1A; hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor); hypoxia-inducible factor 1-alpha; bHLHe78; HIF 1alpha; HIF1; MOP1; PASD8; HIF-1-alpha; member of PAS protein 1; ARNT interacting protein; ARNT-interacting protein; member of PAS superfamily 1; PAS domain-containing protein 8; basic-helix-loop-helix-PAS protein MOP1; class E basic helix-loop-helix protein 78; hypoxia-inducible factor 1 alpha isoform I.3; hypoxia-inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor); HIF-1alpha; HIF1-ALPHA;

**Gene ID** 3091

**mRNA Refseq** NM\_001243084

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| <b>Protein Refseq</b>      | NP_001230013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>MIM</b>                 | 603348                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>UniProt ID</b>          | Q16665                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Chromosome Location</b> | 14q23.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Pathway</b>             | Adipogenesis, organism-specific biosystem; Angiogenesis, organism-specific biosystem; Circadian Clock, organism-specific biosystem; HIF-1-alpha transcription factor network, organism-specific biosystem; Hypoxic and oxygen homeostasis regulation of HIF-1-alpha, organism-specific biosystem; NOTCH1 Intracellular Domain Regulates Transcription, organism-specific biosystem; Notch-mediated HES/HEY network, organism-specific biosystem;                                                                                                                                                                                                                                              |
| <b>Function</b>            | Hsp90 protein binding; histone acetyltransferase binding; histone deacetylase binding; protein binding; protein heterodimerization activity; protein heterodimerization activity; protein kinase binding; contributes_to sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific DNA binding transcription factor activity; sequence-specific distal enhancer binding RNA polymerase II transcription factor activity; contributes_to sequence-specific distal enhancer binding RNA polymerase II transcription factor activity; signal transducer activity; transcription factor binding; transcription regulatory region DNA binding; |