

Recombinant Mouse Hif1a protein, His-tagged

Cat. No. Hif1a-7717M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse Hif1a aa. (Arg588~Asn836 (Accession # Q61221)) fused with N-terminal His tag was produced in E. coli cells.

Species Mouse

Source E.coli

ProteinLength Arg588~Asn836

Description This gene encodes the alpha subunit which, along with the beta subunit, forms a heterodimeric transcription factor that regulates the cellular and developmental response to reduced oxygen tension. The transcription factor has been shown to regulate genes involved in several biological processes, including erythropoiesis and angiogenesis which aid in increased delivery of oxygen to hypoxic regions. The transcription factor also plays a role in the induction of genes involved in cell proliferation and survival, energy metabolism, apoptosis, and glucose and iron metabolism. Alternative splicing results in multiple transcript variants encoding different isoforms.

Form Freeze-dried powder

Molecular Mass 33kDa as determined by SDS-PAGE reducing conditions.

Endotoxin <1.0EU per 1g (determined by the LAL method)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|-----------------------|---|
| Purity | >95% |
| Characteristic | The isoelectric point is 6.3. |
| Applications | SDS-PAGE; WB; ELISA; IP. |
| Stability | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| Storage | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months. |
| Storage buffer | Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative. |
| Reconstitution | Reconstitute in sterile ddH2O. |

GENE INFORMATION

| | |
|------------------------|---|
| Gene Name | Hif1a hypoxia inducible factor 1, alpha subunit [<i>Mus musculus</i> (house mouse)] |
| Official Symbol | Hif1a |
| Synonyms | MOP1; bHLHe78; AA959795; HIF1alpha; HIF1-alpha; HIF-1-alpha; ARNT-interacting protein; hypoxia-inducible factor 1-alpha |
| Gene ID | 15251 |
| mRNA Refseq | NM_001313919.1 |

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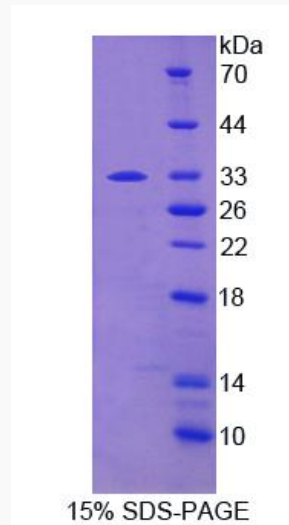
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Protein Refseq NP_001300848.1

UniProt ID Q61221

SDS-PAGE



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