

Hypoxia Inducible Factor 1 Alpha (HIF1a) Recombinant Protein | HIF1a recombinant protein

Recombinant Hypoxia Inducible Factor 1 Alpha (HIF1a)

CATALOG # AAA134282	HOST E.coli	APPLICATIONS Western Blot, SDS-Page
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PRODUCT SYNONYMS

Hypoxia Inducible Factor 1 Alpha (HIF1a); Recombinant Hypoxia Inducible Factor 1 Alpha (HIF1a); HIF1a recombinant protein

PRODUCT SPECIFICATIONS

Host	E.coli
Purity/Purification	> 97%
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Concentration	Original Concentration: 200ug/ml (varies by lot)
Sequence	RSFDQLSPLE SNSPSPPSMS TVTGFQQTQL QKPTITATAT TTATTTDESKT ETKDNKEDIK ILIASPSSTQ VPQETTTAKA SAYSGTHSRT ASPDRAGKRV IEQTDKAHPR SLNLSATLNQ RNTVPEEELN PKTIASQNAQ RKRKMEHDGS LFQAAGIGTL LQQPGDCAPT MSLSWKRVKG FISSEQNGTE QKTIILIPSD LACRLLGQSM DESGLPQLTS YDCEVNAPIQ GSRNLLQGEE LLRALDQVN
Applicable Applications for HIF1a recombinant protein	WB (Western Blot), SDS-PAGE, Immunogen, Positive Control
Organism Species	Mus musculus (Mouse)
Source	Prokaryotic expression
Residues	Arg588~Asn836
Tags	N-terminal His Tag
Subcellular Location	Nucleus, Cytoplasm
Traits	Freeze-dried powder
Predicted isoelectric point	6.3
Usage	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1. Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months. Stability Test: 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.

IMAGES



Gene Sequence
Gene Sequencing (Extract)



SDS-PAGE

NCBI AND UNIPROT INFORMATION

NCBI GI #	226061948
NCBI GeneID	15251
NCBI Accession #	NP_034561.2
NCBI GenBank Nucleotide #	NM_010431.2
UniProt Accession #	Q61221; O08741; O08993; Q61664; Q61665; Q8C681; Q8CC19; Q8CCB6; Q8R385; Q9CYA8
Molecular Weight	Predicted Molecular Mass: 28.3kDa Accurate Molecular Mass: 33kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	hypoxia-inducible factor 1-alpha
NCBI Official Synonym Full Names	hypoxia inducible factor 1, alpha subunit
NCBI Official Symbol	Hif1a
NCBI Official Synonym Symbols	MOP1; bHLHe78; AA959795; HIF1alpha
NCBI Protein Information	hypoxia-inducible factor 1-alpha; HIF1-alpha; HIF-1-alpha; ARNT-interacting protein
UniProt Protein Name	Hypoxia-inducible factor 1-alpha
UniProt Gene Name	Hif1a
UniProt Synonym Gene Names	HIF-1-alpha; HIF1-alpha
UniProt Entry Name	HIF1A_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.