



IC798Hu01 50µg

Recombinant Hypoxia Inducible Factor 1 Alpha (HIF1a)

Organism Species: Homo sapiens (Human)

Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

12th Edition (Revised in Aug, 2016)

[**PROPERTIES**]

Source: Prokaryotic expression

Host: *E.coli*

Residuess: Arg575~Asn826

Tags: N-terminal His Tag

Tissue Specificity: Secreted, Cytoplasm, Chromosome

Purity: > 95%

Traits: Freeze-dried powder

Buffer formulation: PBS, pH7.4, containing 0.01% SKL.

Original Concentration: 200µg/mL

Applications: Positive Control; Immunogen; SDS-PAGE; WB.

(May be suitable for use in other assays to be determined by the end user.)

Predicted isoelectric point: 6.1

Predicted Molecular Mass: 28.7kDa

Accurate Molecular Mass: 34kDa as determined by SDS-PAGE reducing conditions.

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.

[**USAGE**]

Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

[**STORAGE AND STABILITY**]

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.

[SEQUENCE]

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                                RSFDQL SPLESSSASP ESASPQSTVT
VFQQTQIQEP TANATTTTAT TDELKTVTKD RMEDIKILIA SPSPTIHKE
TTSATSSPYR DTQSRTASPN RAGKGVIEQT EKSHPRSPNV LSVALSQRTT
VPEEELNPKI LALQNAQRKR KMEHDGSLFQ AVGIGTLLQQ PDDHAATTSL
SWKRVKGCKS SEQNGMEQKT IILIPSDLAC RLLGQSMDES GLPQLTSYDC
EVNAPIQGSR NLLQGEELLR ALDQVN
  
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[IDENTIFICATION]

CTTCTCTCTGCGGCTGTGCACTTAGCAAGGCTGTCCGAGGCTGAGGCGGAGTCTCTCAAGGCGCTTAAAGTATTCAGGAGCTCAATAGCAAGACTCTCTCTATGCTCCCACTGAGGCTCTGCGGCTGATGCAATTAAAGGCTGCAAGAGCGGATGAGGATTAAGGCTGATTGCTGCTGCTG
 R S F D Q L S P L E S S A S P E S A S P O S T V T T V F Q Q T O I O E P T A H A T T T T A T T D E L K T V T Y R D R M E D I K I L I A S P S P

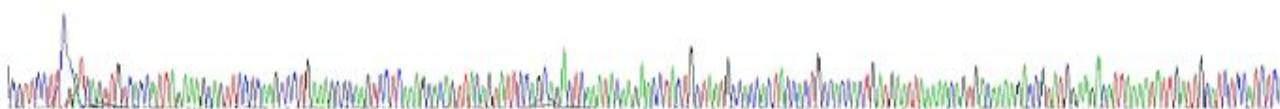


Figure. Gene Sequencing (Extract)

