

**RPA798Hu01 200µg**

**Recombinant Hypoxia Inducible Factor 1 Alpha (HIF1a)**

**Organism Species: *Homo sapiens (Human)***

***Instruction manual***

**FOR RESEARCH USE ONLY**

**NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES**

---

13th Edition (Revised in Aug, 2023)

## **[ PROPERTIES ]**

**Source:** Prokaryotic expression

**Host:** *E.coli*

**Residues:** Arg575~Asn826

**Tags:** N-terminal His Tag

**Subcellular Location:** Secreted, Cytoplasm, Chromosome

**Purity:** > 90%

**Traits:** Freeze-dried powder

**Buffer formulation:** PBS, pH7.4, containing 0.01% Sarcosyl, 5% Trehalose.

**Original Concentration:** 1000µg/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.

Aliquot and store at -80°C for 12 months.

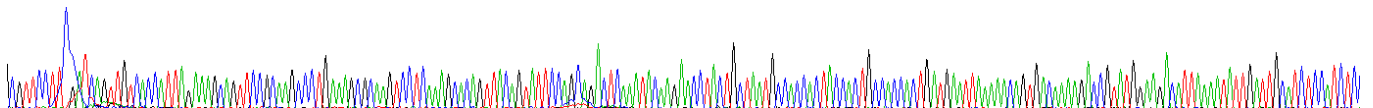
**Stability Test:** The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

**[ SEQUENCE ]**

|            |            |            |            |            |
|------------|------------|------------|------------|------------|
|            |            | RSFDQL     | SPLESSSASP | ESASPQSTVT |
| VFQQTQIQEP | TANATTTTAT | TDELKTVTKD | RMEDIKILIA | SPSPTHIHKE |
| TTSATSSPYR | DTQSRTASPN | RAGKGVIEQT | EKSHPRSPNV | LSVALSQRTT |
| VPEEELNPKI | LALQNAQRKR | KMEHDGSLFQ | AVGIGTLLQQ | PDDHAATTSL |
| SWKRVKGCKS | SEQNGMEQKT | IILIPSDLAC | RLLGQSMDES | GLPQLTSYDC |
| EVNAPIQGSR | NLLQGEELLR | ALDQVN     |            |            |

**[ IDENTIFICATION ]**

NGTTCCTCGATCAGTTGTCACCAATTAGAAACAGTTTCGAGAGCCCTGAAAGCCAGTCTCTAAACACACATTACAGTATTCACAGACCTCAATATACAGAGCTACTCTCAATCCGCCACTACCACTCCCACTGATGATTAAAAAGAGTGCAAAAGAGCGTATGAGAGCAATTAAATATTGATTCATCTCATCTC  
 R S F D Q L S P L E S S A S P E S A S P Q S T V T V F Q Q T Q I Q E P T A N A T T T T A T T D E L K T V T K D R M E D I K I L I A S P S P



### Figure. Gene Sequencing (Extract)

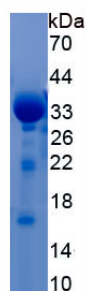


Figure. SDS-PAGE

**[ IMPORTANT NOTE ]**

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.