

## Recombinant Human HPF1 Protein (1-346 aa), His-SUMO-Myc-tagged

**Cat. No.** HPF1-2397H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human HPF1 Protein (1-346 aa) is produced by E. coli expression system. This protein is fused with a 10xHis-SUMO tag at the N-terminal and a Myc tag at the C-terminal. Protein Description: Full Length.                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | 1-346 aa                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | Acts as a cofactor for serine ADP-ribosylation by conferring serine specificity on PARP1 and PARP2: interacts with PARP1 and PARP1 and is able to change amino acid specificity toward serine. Promotes histone serine ADP-ribosylation in response to DNA damage, limiting DNA damage-induced PARP1 hyper-automodification, and ensuring genome stability. |
| <b>Form</b>             | Tris-based buffer, 50% glycerol                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | 59.4 kDa                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | MVGGGGKRRPGGEGPQCEKTTDVKKSKFCEADVSSDLRKEVENHYKLSLPEDFYH<br>FWKFCEELDPEKPSDLSASLGLQLVGPYDILAGKHKTKKKSTGLNFNLHWRFYD<br>PPEFQTIIGDNKTQYHMGYFRDSPDEFVYVGINEAKKNCIIVPNGDNVFAAVKLFLT<br>KKLREITDKKKINLLKNIDEKLTEAARELGYSLEQRTVKMKQRDKKVVTKTFHGAGLV                                                                                                                |

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|                      |                                                                                                                                                                                                                                                                                                                     |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | VPVDKNDVGYRELPETDADLKRICKTIVEAASDEERLKAFAPIQEMMTFVQFANDEC<br>DYGMGLELGMDLFCYGSHYFHKVAGQLLPLAYNLLKRNLFAEIIIEHLANRSQENID<br>QLAA                                                                                                                                                                                      |
| <b>Purity</b>        | > 85% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                    |
| <b>Notes</b>         | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.                                                                                                                                                                                                        |
| <b>Storage</b>       | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade. |
| <b>Concentration</b> | A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.                                                                                                                                                                                                                |

## GENE INFORMATION

|                        |                                                           |
|------------------------|-----------------------------------------------------------|
| <b>Gene Name</b>       | HPF1 histone PARylation factor 1 [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | HPF1                                                      |
| <b>Synonyms</b>        | HPF1; C4orf27;                                            |
| <b>Gene ID</b>         | 54969                                                     |
| <b>mRNA Refseq</b>     | NM_017867                                                 |
| <b>Protein Refseq</b>  | NP_060337                                                 |

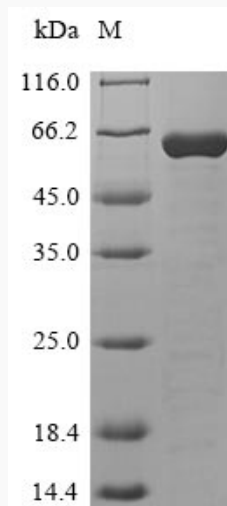
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UniProt ID

Q9NWX4



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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