

# Recombinant Human EIF4E Protein Complexed With m7GTP (1-217)

**Cat. No.** EIF4E-41H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human EIF4E is expressed in E. coli as a single, non-glycosylated polypeptide chain containing 237 amino acids (1-217 a.a.). It is well purified by m7GTP affinity, ion exchange and gel filtration chromatographic techniques.                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 1-217 a.a.                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | Enables SUMO-specific isopeptidase activity. Involved in G2/M transition of mitotic cell cycle and protein desumoylation. Located in nuclear envelope and nucleolus. Orthologous to several human genes including SENP1 (SUMO specific peptidase 1) and SENP2 (SUMO specific peptidase 2). |
| <b>Molecular Mass</b>   | 28 kDa                                                                                                                                                                                                                                                                                     |
| <b>AA Sequence</b>      | MATVEPETTPTPNPPTTEEEKTESNQEVANPEHYIKHPLQNRWALWFFKNDKSKTW<br>QANLRLISKFDTVEDFWALYNHIQLSSNLMPGCDYSLFKDGIEMWEDEKNKRGR<br>WLITLNKQRRSDLDRFWLETLLCLIGESFDDYSDDVCGAVNVRAKGDKIAIWTE<br>CENREAVTHIGRVYKERLGLPPKIVIGYQSHADTATKSGSTTKNRFVV                                                           |
| <b>Purity</b>           | > 98% by SDS-PAGE                                                                                                                                                                                                                                                                          |

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|                       |                                                                                                                           |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Usage</b>          | Binding assay, small molecule inhibitor screening, crytallization/co-crystallization, substrate of MNK1,2 or other kinase |
| <b>Storage</b>        | >12 months at -80 centigrade, stable for 2-4 weeks at 4 centigrade, avoid multiple freeze-thaw cycles.                    |
| <b>Concentration</b>  | 0.5 mg/mL                                                                                                                 |
| <b>Storage Buffer</b> | eIF4E with 50 $\mu$ M m7GTP, 2 mM DTT, 10% glycerol, 0.02% NaN <sub>3</sub> , 150 mM NaCl, 50 mM Tris-HCl pH7.5.          |

## GENE INFORMATION

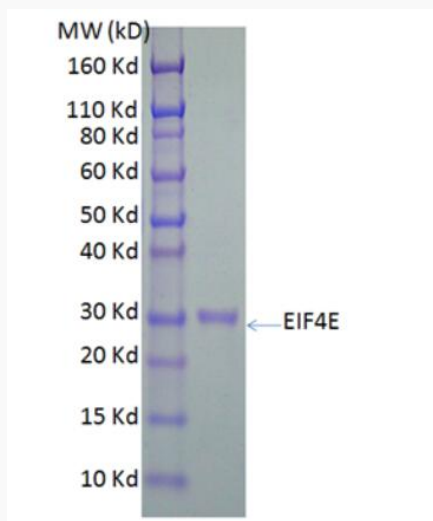
|                        |                                                                                                                                                                                                                          |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | EIF4E eukaryotic translation initiation factor 4E [ Homo sapiens (human) ]                                                                                                                                               |
| <b>Official Symbol</b> | EIF4E                                                                                                                                                                                                                    |
| <b>Synonyms</b>        | EIF4E; eukaryotic translation initiation factor 4E; EIF4EL1, EIF4F; EIF4E1; eIF-4E; eIF-4F 25 kDa subunit; mRNA cap-binding protein; eukaryotic translation initiation factor 4E-like 1; CBP; EIF4F; EIF4EL1; MGC111573; |
| <b>Gene ID</b>         | 1977                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>     | NM_001130678                                                                                                                                                                                                             |
| <b>Protein Refseq</b>  | NP_001124150                                                                                                                                                                                                             |
| <b>MIM</b>             | 133440                                                                                                                                                                                                                   |
| <b>UniProt ID</b>      | P06730                                                                                                                                                                                                                   |

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SDS-PAGE



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