

Recombinant Human EEF1A2 protein, GST-tagged

Cat. No. EEF1A2-12289H Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant Human EEF1A2 protein(NP_001949.1)(109-463 aa), fused to GST-tag at N-terminus, was expressed in E. coli. |
| Species | Human |
| Source | E.coli |
| ProteinLength | 109-463 aa |
| Description | This gene encodes an isoform of the alpha subunit of the elongation factor-1 complex, which is responsible for the enzymatic delivery of aminoacyl tRNAs to the ribosome. This isoform (alpha 2) is expressed in brain, heart and skeletal muscle, and the other isoform (alpha 1) is expressed in brain, placenta, lung, liver, kidney, and pancreas. This gene may be critical in the development of ovarian cancer. |
| Form | The purified protein was Lyophilized from sterile PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.). 5 % trehalose and 5 % mannitol are added as protectants before lyophilization. |
| Bio-activity | Not tested. |
| AA Sequence | ADCAVLIVAAGVGEFEAGISKNGQTRHALLAYTLGVKQLIVGVNKMDSTEPAYSEK RYDEIVKEVSAYIKKIGYNPATVPFVPISGWHGDNMLEPSPNMPWFKGWKVERKEG NASGVSLLEALDITLPPTRPTDKPLRLPLQDVYKIGGIGTVPVGRVETGILRPGMVVTF APVNITTEVKSVEMHHEALSEALPGDNVGFNVKNVSVKDIRRGVCGDSKSDPPQE |

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AAQFTSQVIILNHPGQISAGYSPVIDCHTAHIACKFAELKEKIDRRSGKKLEDNPKSLK
SGDAAIVEMVPGKPMCVESFSQYPPLGRFAVRDMRQTVAVGVIKNVEKKSGGAGK
VTKSAQKAQKAGK

Endotoxin

Please contact the lab for more information.

Purity

90%, by SDS-PAGE with Coomassie Brilliant Blue staining.

Applications

Blocking peptide

Stability

Store for up to 12 months at -20°C to -80°C as lyophilized powder.

Storage

Short-term storage: Store at 2-8°C for (1-2 weeks).

Long-term storage: Aliquot and store at -20°C to -80°C for up to 3 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.

Reconstitution

Reconstitute at 0.25 g/μl in 200 μl sterile water for short-term storage.

Reconstitution with 200 μl 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details).

If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used).

Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature (see below).

GENE INFORMATION

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| | |
|------------------------|--|
| Gene Name | EEF1A2 eukaryotic translation elongation factor 1 alpha 2 [Homo sapiens (human)] |
| Official Symbol | EEF1A2 |
| Synonyms | EEF1AL; EF-1-alpha-2; EF1A; FLJ41696; HS1; STN; STNL |
| Gene ID | 1917 |
| mRNA Refseq | NM_001958.5 |
| Protein Refseq | NP_001949.1 |
| MIM | 602959 |
| UniProt ID | Q05639 |

**SDS-PAGE of
EEF1A2-12289H**



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