

Recombinant Human EEF1A2 protein, GST-tagged

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

SPECIFICATION

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	ADCAVLIVAAGVGEFEAGISKNGQTREHALLAYTLGVKQLIVGVNKMDSTEPAYSEK RYDEIVKEVSAYIKKIGYNPATVPFVPISGWHGDNMLEPSPNMPWFKGWKVERKEG NASGVSLLEALDTILPPTRPTDKPLRLPLQDVYKIGGIGTVPVGRVETGILRPGMVVTF APVNITTEVKSVEMHHEALSEALPGDNGVGNVKNVSVKDIRRGNVCGDSKSDPPQE

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AAQFTSQVILNHPGQISAGYSPVIDCHTAHIACKFAELKEKIDRRSGKKLEDNPKSLK
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 µg/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**

