

EEF2 Protein, Human, Recombinant (His)

General Information

Synonyms: EF-2;EF2;Elongation factor 2;EEF2

Protein Construction: 2-858 aa

Species: Human

Expression Host: E. coli

Accession: P13639

Molecular Weight: 99.2 kDa (predicted)

AA Sequence:

VNFTVDQIRAIMDKKANIRNMSVIAHVDHGKSTLTDSLVCAGIIASARAGETRFTDTRKDEQERCITIKSTAISL
 FYELSENDLNFIKQSKDGAGFLINLIDSPGHVDFSSVEVTAALRVTDGALVVVDCVSGVCVQTETVLRQAIARIK
 PVLMMNKMDRALLELQLEPEELYQTFQRIVENVNVIIISTYGEGESGPMGNIMIDPVLGTVGFGSGLHGWAFTL
 KQFAEMYVAKFAAKGEGQLGPAERAKKVEDMMKKLWGDYRFDYPANGKFSKSATSPEGKKLPRTFCQLILDPI
 FKVFDAIMNFKEETAKLIEKLDIKLDESEDKDKGKPLLKAVMRRWLPAGDALLQMITIHLPSVTAQKYRCELL
 YEGPPDDEAAMGIKSCDPKGPLMMYISKMVPTSDKGRFYAFGRVFSGLVSTGLKVRIMGPNYTPGKKEDLYL
 KPIQRTILMMGRYVEPIEDVPCGNIVGLVGDQFLVKTGTITTTFEHAHNMRVMKFSVSPVVRVAVEAKNPADL
 PKLVEGLKRLAKSDPMVQCIIEESGEHIIAGAGELHLEICLKDLEEDHACIPIKSDPVVSYRETVSEESNVLCLSK
 SPNKHNRLYMKARPPDGLAEDIDKGEVSARQELKQRARYLAEKEYEWDVAEARKIWCFGPDGTGPNILTDIT
 KGVQYLNEIKDSVVAGFQWATKEGALCEENMRGVRFDVHDVTLHADAIHRGGGQIIPARRCLYASVLTAQP
 RLMEPIYLVEIQCEQVVGIIYGVLRNRKRGHVFEESQVAGTPMFVVKAYLPVNESFGFTADLRSTGGQAFPQ
 CVFDHWQILPGDPFDNSSRPSQVVAETRRKGLKEGIPALDNFLDKL

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: PBS/Tris-based buffer

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Catalyzes the GTP-dependent ribosomal translocation step during translation elongation. During this step, the ribosome changes from the pre-translocational (PRE) to the post-translocational (POST) state as the newly formed A-site-bound peptidyl-tRNA and P-site-bound deacylated tRNA move to the P and E sites, respectively. Catalyzes the coordinated movement of the two tRNA molecules, the mRNA and conformational changes in the ribosome.

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481