

EEF1A1 Protein, Human, Recombinant

General Information

Synonyms:	Leukocyte receptor cluster member 7;Eukaryotic elongation factor 1 A-1 (eEF1A-1);EEF1A;EEF1A1;EF1A;Elongation factor 1-alpha 1;Elongation factor Tu (EF-Tu);LENG7;EF-1-alpha-1
Protein Construction:	1-462 aa
Species:	Human
Expression Host:	E. coli
Accession:	P68104
Molecular Weight:	50.1 kDa (predicted)
AA Sequence:	MGKEKTHINIVVIGHVDVSGKSTTTGHLIYKCGGIDKRTIEKFEKEAAEMGKGSFKYAWVLDKDKAERERGITIDISLWKFETSKYYVTIIDAPGHRDFIKNMITGTSQADCAVLIVAAGVGEFEAGISKNGQTRHALLAYTLGVKQLIVGVNKMDSPEPPYSQKRYEEIVKEVSTYIKKIGYNPDTVAFVPIISGWNGDNMLEPSANMPWFKGWKVTTRKDGNASGTTLLLEALDCILPPTTRPTDKPLRLPLQDVYKIGGIGTVPVGRVETGVLKPGMVVTFAPVNVVTEVKSVEMHHEALSEALPGDNGVGFNVKNSVKDVRRGVAGDSKNDPPMEAAGFTAQVHILNHPGQISAGYAPVLDCHTAHIACKFAELKEKIDRRSGKKLEDGPKFLKSGDAAIVDMVPGKPMCVESFSDYPLGRFAVRDMRQTVAVGVKAVDKKAAGAGKVTSAQAQAK

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:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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

A DRUG SCREENING EXPERT

This protein promotes the GTP-dependent binding of aminoacyl-tRNA to the A-site of ribosomes during protein biosynthesis. Plays a role in the positive regulation of IFNG transcription in T-helper 1 cells as part of an IFNG promoter-binding complex with TXK and PARP1.; (Microbial infection) Required for the translation of viral proteins and viral replication during human coronavirus SARS-CoV-2 infection.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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