abcam

Product datasheet

Recombinant Human EEF2/Elongation factor 2 protein (denatured) ab183170

1 Image

Description

Product name	Recombinant Human EEF2/Elongation factor 2 protein (denatured)
Purity	> 90 % SDS-PAGE.
Expression system	Escherichia coli
Accession	P13639
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHHSSGLVPRGSHMGSDPVVSYRETVSEESN VLCLSKSPNKHN RLYMKARPFPDGLAEDIDKGEVSARQELKQRARYLAEKY EWDVAEARKIW CFGPDGTGPNILTDITKGVQYLNEIKDSVVAGFQWATKEG ALCEENMRGV RFDVHDVTLHADAIHRGGGQIIPTARRCLYASVLTAQPRLM EPIYLVEIQ CPEQVVGGIYGVLNRKRGHVFEESQVAGTPMFVVKAYLP VNESFGFTADL RSNTGGQAFPQCVFDHWQILPGDPFDNSSRPSQVVAET RKRKGLKEGIPA LDNFLDKL
Predicted molecular weight	34 kDa including tags
Amino acids	574 to 858
Tags	His tag N-Terminus
Additional sequence information	NP_001952

Specifications

Our **Abpromise guarantee** covers the use of **ab183170** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid
Additional notes	This product was previously labelled as EEF2

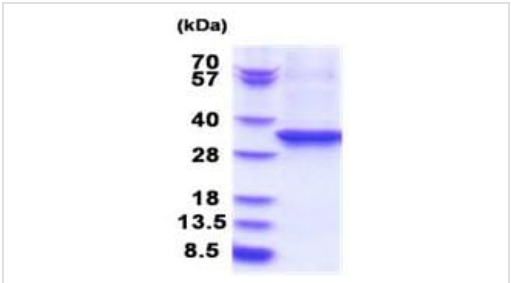
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 10% Glycerol (glycerin, glycerine), 0.32% Tris HCl, 2.4% Urea

General Info

Function	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.
Sequence similarities	Belongs to the GTP-binding elongation factor family. EF-G/EF-2 subfamily.
Post-translational modifications	Phosphorylation by EF-2 kinase completely inactivates EF-2. Diphthamide is 2-[3-carboxyamido-3-(trimethyl-ammonio)propyl]histidine. Diphthamide can be ADP-ribosylated by diphtheria toxin and by Pseudomonas exotoxin A, thus arresting protein synthesis. ISGylated.
Cellular localization	Cytoplasm.

Images



SDS-PAGE - Recombinant Human EEF2/Elongation factor 2 protein (denatured) (ab183170)

15% SDS-PAGE analysis of ab183170 (3µg).

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