

Human EEF1E1 / AIMP3 / p18 Protein (His Tag)

Catalog Number: 14004-H07E



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Biological Solution Specialist

General Information

Gene Name Synonym:

AIMP3; P18; 1110003A02Rik

Protein Construction:

A DNA sequence encoding the human EEF1E1 (NP_004271.1) (Met1-His174) was expressed with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 85 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: His

Molecular Mass:

The recombinant human EEF1E1 consists of 189 amino acids and predicts a molecular mass of 21.6 KDa. It migrates as an approximately 19-24 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, 10% Glycerol, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

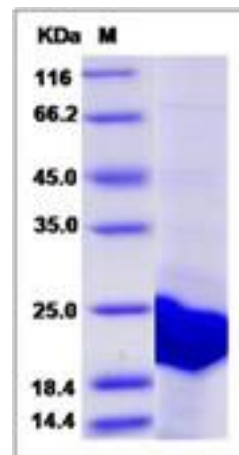
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

EEF1E1, also known as AIMP3 and p18, is a multifunctional protein that localizes to both the cytoplasm and nucleus. In the cytoplasm, EEF1E1 is an auxiliary component of the macromolecular aminoacyl-tRNA synthase complex. It is comprised of a bifunctional glutamyl-prolyl-tRNA synthase, the monospecific isoleucyl, leucyl, glutamyl, methionyl, lysyl, arginyl and aspartyl-tRNA synthases, and three auxiliary proteins, EEF1E1/p18, AIMP2/p38 and AIMP1/p43. EEF1E1 also plays a positive role in ATM/ATR-mediated p53 activation.

References

- 1.Mao M. et al., 1998, Proc Natl Acad Sci. 95 (14): 8175-80.
- 2.Quevillon S. et al., 1999, J Mol Biol. 285 (1): 183-95.
- 3.Ahn HC. et al., 2003, FEBS Lett. 542 (1-3): 119-24.

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