Recombinant human AIMP3/EEF1E1 protein

Catalog Number: ATGP1022

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-174aa

UniProt No.
O43324

NCBI Accession No.
NP_004271

Alternative Names
Eukaryotic translation elongation factor 1 epsilon-1, AIMP3, P18, Aminoacyl tRNA synthetase complex-interacting multifunctional protein 3, Multisynthetase complex auxiliary component p18, Elongation factor p18

PRODUCT SPECIFICATION

Molecular Weight
21.9 kDa (194aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl,1mM DTT

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
EEF1E1, also known as, eukaryotic translation elongation factor 1 epsilon-1, shares sequence similarity with the amino-terminal ends of the Beta and Gamma subunits of EF-1. By specifically interacting with MetRS, this protein binds to a macromolecular tRNA synthtase complex that catalyzes the ligation of specific amino acids to their cognate tRNAs. upon DNA damage, it translocates to the nucleus where it interacts with ATM and ATR, resulting in p53 activation. Recombinant human EEIF1E1 protein, fused to His-tag at N-terminus, was expressed in E. coli

and purified by using conventional chromatography.

Amino acid Sequence

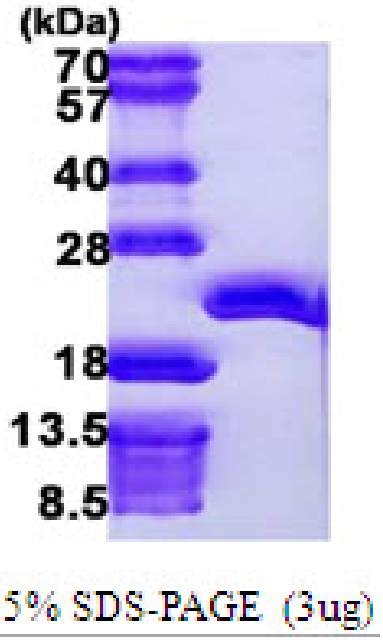
MGSSHHHHHH SSGLVPRGSH MAAAAELSLL EKSLGLSKGN KYSAQGERQI PVLQTNNGPS LTGLTTIAAH LVKQANKEYL LGSTAEEKAI VQQWLEYRVT QVDGHSSKND IHTLLKDLNS YLEDKVYLTG YNFTLADILL YYGLHRFIVD LTVQEKEKYL NVSRWFCHIQ HYPGIRQHLS SVVFIKNRLY TNSH

General References

Quevillon S. et al. (1996) FEBS Lett. 395: 63-67.
Norcum MT. et al. (1991) J Biol Chem. 266:15398-405

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.