

Recombinant human EF-1 delta/EEF1D protein

Catalog Number: ATGP0955

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-281aa

UniProt No.

P29692

NCBI Accession No.

NP_001951

Alternative Names

Eukaryotic translation elongation factor 1 delta, EF-1D, EF1D, Elongation factor 1-delta, Antigen NY-CO-4

PRODUCT SPECIFICATION

Molecular Weight

33.2 kDa (301aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

Purity

> 90% 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

Eukaryotic translation elongation factor 1 delta, also known as EEF1D, is a subunit of the elongation factor-1 complex, which is responsible for the enzymatic delivery of aminoacyl tRNAs to the ribosome. This subunit functions as guanine nucleotide exchange factor. It is reported that this subunit interacts with HIV-1 Tat, and thus it represses the translation of host-cell, but not HIV-1, mRNAs. Overexpression of EEF1D is associated with oesophageal carcinoma and may adversely affect the outcome of medulloblastomas. Recombinant human EEF1D protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

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chromatography techniques.

Amino acid Sequence

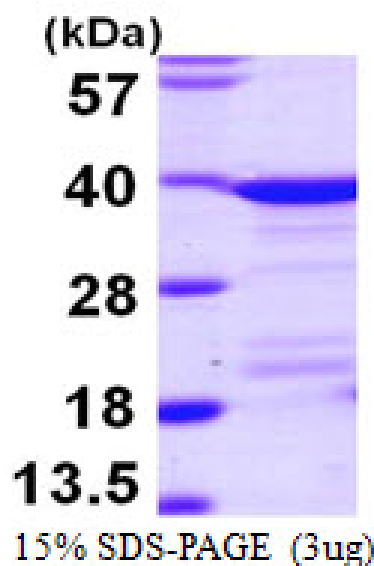
MGSSHHHHHHH SSGLVPRGSH MATNFLAHEK IWFDKFKYDD AERRFYEQMN GPVAGASRQE NGASVILRDI ARARENIQKS
LAGSSGPGAS SGTSGDHGEL VVRIASLEVE NQSLRGVVQE LQQAISKLEA RLVNLEKSSP GHRATAPQTQ HVSPMRQVEP
PAKKPATPAE DDEDDIDLF GSDNEEEDKE AAQLREERLR QYAEKKAKKP ALVAKSSILL DVKPWDDDET MAQLEACVRS
IQLDGLVWGA SKLVPVGYGI RKLQIQCVVE DDKVGTDLLE EEITKFEHV QSVDAAFNK I

General References

De Bortoli M., et al. (2006) BMC Cancer. 6:223.
Cans C., et al. (2003) Proc Natl Acad Sci. 100:13892-13897.

DATA

SDS-PAGE



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