Recombinant human TIAL1 protein

Catalog Number: ATGP2906

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-375aa

UniProt No.
Q01085

NCBI Accession No.
NP_003243

Alternative Names
TIA1 cytotoxic granule-associated RNA binding protein-like 1, TIA1 cytotoxic granule-associated RNA binding protein-like 1, TCBP, TIAR

PRODUCT SPECIFICATION

Molecular Weight
44 kDa (398aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing, 50% glycerol, 2mM DTT, 1mM EDTA

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
TIAL1 is a member of a family of RNA-binding proteins, has three RNA recognition motifs (RRMs), and binds adenine and uridine-rich elements in mRNA and pre-mRNAs of a wide range of genes. It regulates various activities including translational control, splicing and apoptosis. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. The different isoforms have been show to function differently with respect to post-transcriptional silencing. Recombinant human TIAL1 protein, fused to His-tag at N-

terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

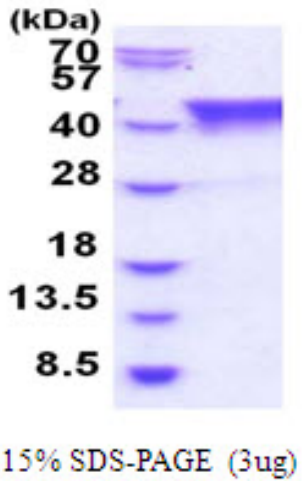
MGSSHHHHHH SSGLVPRGSH MGSMMEDDGQ PRTLYVGNLS RDVTEVLILQ LFSQIGPCKS CKMITEHTSN DPYCFVEFYE HRDAAAALAA MNGRKILGKE VKVNWATTPS SQKKDTSNHF HVFVGDLSPE ITTEDIKSAF APFGKISDAR VVKDMATGKS KGYGFVSFYN KLDAENAIVH MGGQWLGGRQ IRTNWATRKP PAPKSTQENN TKQLRFEDVV NQSSPKNCTV YCGGIASGLT DQLMRQTFSP FGQIMEIRVF PEKGYSFVRF STHESAAHAI VSVNGTTIEG HVVKCYWGKE SPDMTKNFQQ VDYSQWGQWS QVYGNPQQYG QYMANGWQVP PYGVYGQPWN QQGFGVDQSP SAAWMGGFGA QPPQGQAPPP VIPPPNQAGY GMASYQTQ

General References

Kim HS., et al. (2013) RNA Biol 10 (4), 579-589
Singh NN., et al. (2011) Mol. Cell. Biol. 31 (5), 935-954

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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