Recombinant human USF1 protein

Catalog Number: ATGP2447

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-310aa

UniProt No.
P22415

NCBI Accession No.
NP_001263302

Alternative Names
Upstream transcription factor 1, Upstream stimulatory factor 1, uEF, MLTFI, MLTF, Major late transcription factor 1, HYPLIP1, FCHL1, FCHL, Class B basic helix-loop-helix protein 11, bHLHb11

PRODUCT SPECIFICATION

Molecular Weight
35.9 kDa (333aa) confirmed by MALDI-TOF

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

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
USF1 is a member of the basic helix-loop-helix leucine zipper family, and can function as a cellular transcription factor. USF1 can activate transcription through pyrimidine-rich initiator (Inr) elements and E-box motifs. This gene has been linked to familial combined hyperlipidemia (FCHL). Alternative splicing of this gene results in multiple transcript variants. A related pseudogene has been defined on chromosome 21. Recombinant human USF1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

chromatography techniques.

Amino acid Sequence

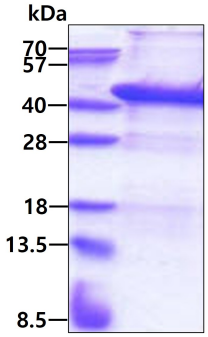
<MGSSHHHHHH SSGLVPRGSH MGS>MKGQQKT AETEEGTVQI QEGAVATGED PTSVAIASIQ SAATFPDPNV KYVFRTENGG QVMYRVIQVS EGQLDGQTEG TGAISGYPAT QSMTQAVIQG AFTSDDAVDT EGTAAETHYT YFPSTAVGDG AGGTTSGSTA AVVTTQGSEA LLGQATPPGT GQFFVMMSPQ EVLQGGSQRS IAPRTHPYSP KSEAPRTTRD EKRRAQHNEV ERRRRDKINN WIVQLSKIIP DCSMESTKSG QSKGGILSKA CDYIQELRQS NHRLSEELQG LDQLQLDNDV LRQQVEDLKN KNLLLRAQLR HHGLEVVIKN DSN

General References

Rahaus M., et al. (2003) J. Gen. Virol. 84:2957-2967
Pajukanta P., et al. (2004) Nat. Genet. 36:371-376

DATA

SDS-PAGE



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