

AR51267PU-S

Human USF1 (1-310, His-tag) - Purified

Alternate names:

Major late transcription factor 1, USF, Upstream stimulatory factor 1

Quantity:

50 µg

Concentration:

0.25 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[P22415](#)

NCBI:

[NP_001263302](#)

GeneID:

[7391](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

Description:

Recombinant human USF1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SGLVPRGSH MGSMKGQKQT AETEEGTVQI QEGAVATGED PTSVAIASIQ
SAATFPDPNV KYVVRTENGQ QVMYRVIQVS EGQLDGQTEG TGAISGYPAT QSMTQAVIQG
AFTSDDAVDT EGTAAETHYT YFPSTAVGDG AGGTTSGSTA AVVTTQGSEA LLGQATPPGT
GQFFVMMSPQ EVLQGGSQRS IAPRTHPYSP KSEAPRTTRD EKRRAQHNEV ERRRRDKINN
WIVQLSKIIP DCSMESTKSG QSKGGILSKA CDYIQELRQS NHRLSEELQG LDQLQLDNDV
LRQQVEDLKN KNLLLRAQLR HHGLEVVKN DSN

Molecular weight: 35.9 kDa (333aa), confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

Rahaus M., et al. (2003) J. Gen. Virol. 84:2957-2967

Pajukanta P., et al. (2004) Nat. Genet. 36:371-376

Pictures:

