Recombinant human USF1, His-tagged

Cat. No. USF1-2447H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human USF1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT
Molecular Mass	35.9kDa (333aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMKGQQKT 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

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Purity	>90% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	USF1 upstream transcription factor 1 [Homo sapiens]
Official Symbol	USF1
Synonyms	USF1; upstream transcription factor 1; upstream stimulatory factor 1; bHLHb11; MLTFI; UEF; major late transcription factor 1; class B basic helix-loop-helix protein 11; FCHL; MLTF; FCHL1; HYPLIP1;
Gene ID	7391
mRNA Refseq	NM_007122
Protein Refseq	NP_009053
MIM	191523
UniProt ID	P22415
Chromosome Location	1q22-q23

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Pathway	Signaling mediated by p38-alpha and p38-beta, organism-specific biosystem;
Function	bHLH transcription factor binding; double-stranded DNA binding; enzyme binding; histone deacetylase binding; protein binding; protein heterodimerization activity; protein homodimerization activity; protein homodimerization activity; protein kinase binding

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