
Product Data Sheet

Product Name: USF1 Human
 Cat. No.: GP24962
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Upstream Transcription Factor 1; Class B Basic Helix-Loop-Helix Protein 11; Major Late Transcription Factor 1; bHLHb11; HYPLIP1; FCHL; FCHL1; MLTF; MLTFI; UEF; Upstream Stimulatory Factor 1; BHLHB11; USF; USF1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMKGQKT AETEEGTVQI QEGAVATGED PTSVAIASIQ SAATFPDPNV KYVFRTEGG QVMYRVIQVS EGQLDGQTEG TGAISGYPAT QSMTQAVIQG AFTSDDAVDT EGTAETHYT YFPSTAVGDG AGGTTSGSTA AVVTTQGSEA LLGQATPPGT GQFFVMMSPQ EVLQGGSQRS IAPRTHPYSP KSEAPRTRD EKRRAQHNEV ERRRRDKINN WIVQLSKIIP DCSMESTKSG QSKGGILSKA CDYIQELRQS NHRLSEELQG LDQLQLDNDV LRQQVEDLKN KNLLLRAQLR HHGLEVVIKN DSN.		
Formulation	USF1 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT.		

Introduction

Upstream Transcription Factor 1 (USF1) belongs to the basic helix-loop-helix leucine zipper family, and functions as a cellular transcription factor. USF1 activates transcription via pyrimidine-rich initiator (Inr) elements and E-box motifs. The USF1 gene has been linked to familial combined hyperlipidemia (FCHL). USF1 is a transcription factor which binds to a symmetrical DNA sequence (E-boxes) (5'-CACGTG-3') found in a various viral and cellular promoters.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

USF1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 333 amino acids (1-310 a.a) and having a molecular mass of 35.9kDa. USF1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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