

USF1 Protein, Human (His)

Cat. No.:	HY-P700514
Synonyms:	USF1; upstream transcription factor 1; UEF; FCHL; MLTF; FCHL1; MLTF1; HYPLIP1; bHLHb11; OTTHUMP00000029691; OTTHUMP00000029693; USF; Major late transcription factor 1; upstream stimulatory factor 1
Species:	Human
Source:	E. coli
Accession:	P22415 (G3-N310)
Gene ID:	7391
Molecular Weight:	37.3 kDa

PROPERTIES

AA Sequence	<pre> G Q Q K T A E T E E G T V Q I Q E G A V A T G E D P T S V A I A S I Q S A A T F P D P N V K Y V F R T E N G G Q V M Y R V I Q V S E G Q L D G Q T E G T G A I S G Y P A T Q S M T Q A V I Q G A F T S D D A V D T E G T A A E T H Y T Y F P S T A V G D G A G G T T S G S T A A V V T T Q G S E A L L G Q A T P P G T G Q F F V M M S P Q E V L Q G G S Q R S I A P R T H P Y S P K S E A P R T T R D E K R R A Q H N E V E R R R R D K I N N W I V Q L S K I I P D C S M E S T K S G Q S K G G I L S K A C D Y I Q E L R Q S N H R L S E E L Q G L D Q L Q L D N D V L R Q Q V E D L K N K N L L L R A Q L R H H G L E V V I K N D S N </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>The USF1 protein functions as a transcription factor, binding to symmetrical DNA sequences known as E-boxes (5'-CACGTG-3'), which are prevalent in a diverse array of viral and cellular promoters. Effective DNA binding necessitates dimerization, typically with another basic helix-loop-helix (bHLH) protein. USF1 engages in DNA binding both as a homodimer and as a heterodimer in association with USF2. Notably, USF1 also interacts with the varicella-zoster virus IE62 protein, indicating its involvement in molecular interactions with viral components. This versatile binding capacity and interaction profile</p>
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highlight the regulatory role of USF1 in transcriptional processes across various cellular and viral contexts.

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

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