

Recombinant Human Eukaryotic Translation Initiation Factor 4H, His-tagged

Cat. No. EIF4H-6789H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human EIF4H 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	Eukaryotic translation initiation factor 4H, also known as EIF4H, is a 248 amino acid protein that localizes to the perinuclear region of the cytoplasm and is expressed as two isoforms, designated short and long. EIF4H induces the RNA-dependent ATP hydrolysis catalyzed by the initiation factors EIF4A and EIF4B. EIF4H was further shown to stimulate the initial rate and extent of EIF4A-mediated mRNA secondary structure unwinding. Defects in the gene encoding EIF4H are associated with Williams-Beuren syndrome (WBS), a rare developmental disorder characterized by cardiovascular and musculo-skeletal abnormalities
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol, 2mM DTT
Molecular Weight	29.9 kDa (272aa), confirmed by MALDI-TOF
Purity	> 90% by SDS-PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Sequences of aminoacids

MGSSHHHHHSSGLVPRGSH MGSHMADFDY YDDRAYSSEFG GGRGSRGSAG
 GHGSRSQKEL PTEPPYTAYV GNLPFNTVQGDIDAIFKDLSIRSVRLVRDK
 DTDKFKGFCY VEFDEVDSLK EALTYDGALL GDRSLRVDIA
 EGRKQDKGGFGFRKGGPDDR GMGSSRESRG GWDSRDDFNS GFRDDFLGGR
 GGSRPGRRT GPPMGSFRFD GPPLRGSNMDFREPTEEERA QRPRLQLKPR
 TVATPLNQVA NPNSAIFGGA RPREEVVQKEQE

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

EIF4H eukaryotic translation initiation factor 4H [Homo sapiens]

Official Symbol

EIF4H

Synonyms

EIF4H; eukaryotic translation initiation factor 4H; WBSCR1, Williams Beuren syndrome chromosome region 1; KIAA0038; WSCR1; E430026L18Rik; Ef4h; AU018978; D5Ertd355e; eIF 4H; eIF-4H; EIF4H; Eukaryotic translation initiation factor 4H; IF4H_HUMAN; KIAA0038; WBSCR1; Williams Beuren syndrome chromosomal region 1 protein homolog; Williams Beuren syndrome chromosome region 1; Williams-Beuren syndrome chromosomal region 1 protein; WSCR1; Williams-Beuren syndrome chromosomal region 1; WBSCR1; eIF-4H

Gene ID

7458

mRNA Refseq

NM_031992

Protein Refseq

NP_114381

MIM

603431

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Uniprot ID	Q15056
Chromosome Location	7q11.23
Pathway	Activation of the mRNA upon binding of the cap-binding complex and eIFs, and subsequent binding to 43S, organism-specific biosystem; Cap-dependent Translation Initiation, organism-specific biosystem; Eukaryotic Translation Initiation, organism-specific biosystem; GTP hydrolysis and joining of the 60S ribosomal subunit, organism-specific biosystem; Gene Expression, organism-specific biosystem
Function	RNA binding; nucleotide binding; protein binding; translation factor activity, nucleic acid binding; translation initiation factor activity
PDB rendering based on 2dng.	