

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)

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Sequences of aminoacids

MGSSHHHHHSSGLVPRGSH MGSHMADFDT YDDRAYSFSG GGRGSRGSAG
 GHGSRSQKEL PTEPPYTAYV GNLPFNTVQGDIDAIFKDLSIRSVRLVRDK
 DTDKFKGFCY VEFDEVDSLK EALTYDGALL GDRSLRVDIA
 EGRKQDKGGFGFRKGGPDDR GMGSSRESRG GWDSRDDFNS GFRDDFLGGR
 GGSRPGDRRT 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.	