

Recombinant human eIF-4H/EIF4H protein

Catalog Number: ATGP1562

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-248aa

UniProt No.

Q15056

NCBI Accession No.

NP_071496

Alternative Names

Eukaryotic translation initiation factor 4H, eIF-4H, WBSCR1, WSCR1, Williams-Beuren syndrome chromosome region 1

PRODUCT SPECIFICATION

Molecular Weight

29.9 kDa (272aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol, 2mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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characterized by cardiovascular and musculo-skeletal abnormalities. Recombinant human EIF4H protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MGSHMADFDY YDDRAYSFFG GGRGSRGSAG GHGSRSQKEL PTEPPYTAYV
GNLPFNTVQG DIDAIFKDLS IRSVRLVRDK DTDKFKGFCY VEFDEVDSLK EALTYDGALL GDRSLRVDIA EGRKQDKGGF
GFRKGGPDDR GMGSSRESRG GWDSRDDFNS GFRDDFLGGR GGSRPGDRRT GPPMGSRFRD GPPLRGSNMD
FREPTTEERA QRPRLQLKPR TVATPLNQVA NPNSAIFGGA RPREEVVQKE QE

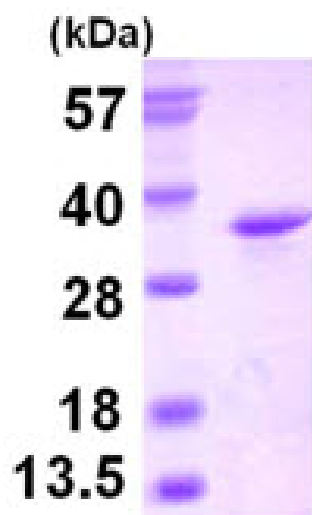
General References

Richter Cook N J., et al. (1998) *J Biol Chem.* 273:7579-7587.

Doepker R C., et al. (2004) *J Virol.* 78: 4684-4699.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)