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

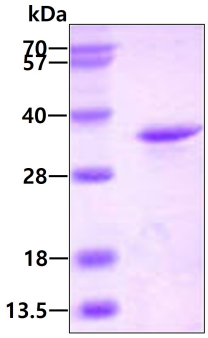
<MGSSHHHHHH SSGLVPRGSH MGSH>MADFDT YDDRAYSSFG GGRGSRGSAG GHGSRSQKEL PTEPPYTAYV GNLPFNTVQG DIDAIFKDLS IRSVRLVRDK DTDKFKGFCY VEFDEVDSLK EALTYDGALL GDRSLRVDIA EGRKQDKGGF GFRKGGPDDR GMGSSRESRG GWDSRDDFNS GFRDDFLGGR GGSRPGDRRT GPPMGSRFRD GPPLRGSNMD FREPTEEERA QRPRLQLKPR TVATPLNQVA NPNSAIFGGA RPREEVVQKE QE

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.