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AR50386PU-N Human EIF4H / WBSCR1 (1-248, His-tag) - Purified

Alternate names: Eukaryotic translation initiation factor 4H, KIAA0038, WSCR1, Williams-Beuren syndrome chromosomal region 1 protein, eIF-4H

Quantity: 0.5 mg

Concentration: 0.5 mg/ml (determined by Bradford assay)

Background: 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.

Uniprot ID: Q15056

NCBI: NP_071496

GeneID: 7458

Species: Human

Source: E. coli

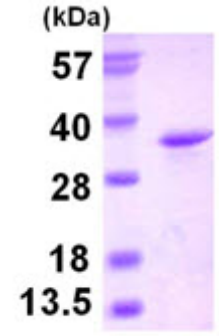
Format:
State: Liquid purified protein
Purity: >90% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol, 2mM DTT

Description: Recombinant human EIF4H protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
AA Sequence:
MGSSHHHHHH SSGLVPRGSH MGSHMADFDT 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
Molecular weight: 29.9 kDa (272aa), confirmed by MALDI-TOF

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings: Richter Cook N J., et al. (1998) J Biol Chem. 273:7579-7587.Doepker R C., et al. (2004) J Virol. 78: 4684-4699.

Pictures:



15% SDS-PAGE (3ug)