

AR50386PU-S**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:

0.1 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 MGSMDAFDT YDDRAYSFFG GGRGSRGSAG GHGSRSQKEL
PTEPPYTAYV GNLPFNTVQG DIDAIFKDLG IRSVRLVRDK DTDKFKGFY VEFDEVDLSLK
EALTYDGALL GDRSLRVDIA EGRKQDKGGF GFRKGGPDDR GMSSRESRG GWDSRDDFNS
GFRDDFLGGR GGSRPDARRT GPPMGSFRD GPPLRGSNMD FREPTEEERA QRPLQLKPR
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:

