

# Recombinant human eIF-1b/EIF1B protein

Catalog Number: ATGP0963

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-113aa

### UniProt No.

O60739

### NCBI Accession No.

NP\_005866

### Alternative Names

Eukaryotic translation initiation factor 1B, GC20, Protein translation factor SUI1 homolog GC20

## PRODUCT SPECIFICATION

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### Molecular Weight

15 kDa (133aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.5) containing 10% glycerol, 2mM DTT, 0.1M NaCl

### Purity

> 95% 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

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### Description

EIF1B is crucial for the scanning process in vitro. During the scanning process, EIF1B is a component of a complex involved in recognition of the initiator codon. Translation is also initiated by the role of EIF1B in regulating the activity of ribosomal subunits 43S, 48S and 40S. This protein enables 43S ribosomal complexes to discern between cognate and near-cognate initiation codons, sensing the nucleotide content of initiation codons. Recombinant human EIF1B protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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### Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MSTIQNLQSF DPFADATKGD DLLPAGTEDY IHIRIQQRNG RKTLLTVQGI ADDYDKKKLV  
KAFKKKFCACN GTVIEHPEYG EVIQLQGDQR KNICQFLLEV GIVKEEQLKV HGF

### General References

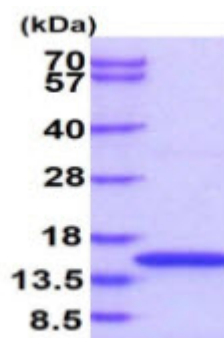
Pestova TV., et al. (2002) Genes Dev. 16(22):2906-22.

Asano K., et al. (2000) Genes Dec. 14(19):2534-46.

## DATA

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### SDS-PAGE



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

15% SDS-PAGE (3ug)