

## EIF1B Protein, Human, Recombinant (His)

### General Information

Synonyms:	Protein Translation Factor SUI1 Homolog GC20;EIF1B;Eukaryotic Translation Initiation Factor 1b
Protein Construction:	Met1-Phe113
Species:	Human
Expression Host:	E. coli
Accession:	O60739
Molecular Weight:	16 KDa (reducing condition)
AA Sequence:	Met1-Phe113

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM Tris-HCl, 500 mM NaCl, pH 8.0.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Eukaryotic Translation Initiation Factor 1B (EIF1B) is an element of a complex involved in recognition of the initiator codon during the scanning process. Translation is also initiated by the function of EIF1B in regulating the activity of ribosomal subunits 43S, 48S and 40S. EIF1B enables 43S ribosomal complexes to distinguish between cognate and near-cognate initiation codons, perceiving the nucleotide content of initiation codons.

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