

## Recombinant Human EIF3G Protein (P2-N320), Tag Free

Cat. No. EIF3G-1056H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human GG-eIF3g(P2-N320 end) Protein was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	P2-N320
<b>Description</b>	<p>RNA-binding component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis. The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNA<sub>i</sub> and eIF-5 to form the 43S pre-initiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation. The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or repression. This subunit can bind 18S rRNA.</p>
<b>Form</b>	Liquid
<b>Endotoxin</b>	< 0.01 EU per µg of the protein

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<b>Purity</b>	90%
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
<b>Storage</b>	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Storage Buffer</b>	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
<b>Shipping</b>	It is shipped out with blue ice.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	EIF3G eukaryotic translation initiation factor 3, subunit G [ Homo sapiens (human) ]
<b>Official Symbol</b>	EIF3G
<b>Synonyms</b>	EIF3G; eukaryotic translation initiation factor 3, subunit G; EIF3S4, eukaryotic translation initiation factor 3, subunit 4 delta, 44kDa; eukaryotic translation initiation factor 3 subunit G; eIF3 delta; eIF3 p44; eIF3g; eIF3 p42; eIF-3-delta; eIF-3 RNA-binding subunit; eukaryotic translation initiation factor 3 subunit 4; eukaryotic translation initiation factor 3 subunit p42; eukaryotic translation initiation factor 3 RNA-binding subunit; eukaryotic translation initiation factor 3, subunit 4 delta, 44kDa; eukaryotic translation initiation factor 3, subunit 4 (delta, 44kD); EIF3S4; EIF3-P42; eIF3-p44; eIF3-delta;
<b>Gene ID</b>	8666
<b>mRNA Refseq</b>	NM_003755

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**Protein Refseq** NP\_003746

**MIM** 603913

**UniProt ID** O75821

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