

Recombinant Human EIF3G Protein (P2-N320), His tagged

Cat. No. EIF3G-1057H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human 6His-TEV-GG-eIF3g(P2-N320 end) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	P2-N320
Description	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-tRNAⁱ 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.
Form	Liquid
Endotoxin	< 0.01 EU per

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	µg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	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.
Storage Buffer	Supplied as sterile 50mM Tris (pH 8.0), 150mM NaCl, 5% glycerol, 5mM DTT
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	EIF3G eukaryotic translation initiation factor 3, subunit G [Homo sapiens (human)]
Official Symbol	EIF3G
Synonyms	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;
Gene ID	8666

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mRNA Refseq	NM_003755
Protein Refseq	NP_003746
MIM	603913
UniProt ID	O75821

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