

Human EIF4G1, N-Twin Strep, C-His, Flag Tag Protein

HA210818



Product name:	Human EIF4G1, N-Twin Strep, C-His, Flag Tag
Species reactivity:	Human
Bio-Activity:	Testing in progress.
Protein construction description:	A DNA sequence encoding the human EIF4G1 protein (Q04637-1) (Thr 330-Gln 600) was expressed with a Twin strep tag at the N-terminus and both His, Flag tag at the C-terminus.

Background: Component of the protein complex eIF4F, which is involved in the recognition of the mRNA cap, ATP-dependent unwinding of 5'-terminal secondary structure and recruitment of mRNA to the ribosome. Exists in two complexes, either with EIF1 or with EIF4E (mutually exclusive). Together with EIF1, is required for leaky scanning, in particular for avoiding cap-proximal start codon. Together with EIF4E, antagonizes the scanning promoted by EIF1-EIF4G1 and locates the start codon (through a TISU element) without scanning. As a member of the eIF4F complex, required for endoplasmic reticulum stress-induced ATF4 mRNA translation.

Purity: >95% as determined by SDS-PAGE.

Endotoxin: Less than 1.0 EU per µg by the LAL method.

Fragment region: EIF4G1 (330-600)

Source: E.coli

Accession: Q04637-1

Predicted molecular mass: 35.2 kD

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.

Reconstitution: Reconstitute at 250 µg/ml in sterile water.

Storage: Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

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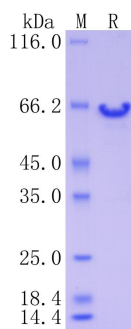


Fig1: Protein on SDS-PAGE under reducing (R) condition.

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