Active Recombinant Human EIF4G1 protein, Myc/DDK-tagged

Cat. No. EIF4G1-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EIF4G1 protein, fused to Myc/DDK-tagged, was expressed in HEK293T. Protein Pathways: Viral myocarditis
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a component of the multi-subunit protein complex EIF4F. This complex facilitates the recruitment of mRNA to the ribosome, which is a rate-limiting step during the initiation phase of protein synthesis. The recognition of the mRNA cap and the ATP-dependent unwinding of 5'-terminal secondary structure is catalyzed by factors in this complex. The subunit encoded by this gene is a large scaffolding protein that contains binding sites for other members of the EIF4F complex. A domain at its N-terminus can also interact with the poly(A)-binding protein, which may mediate the circularization of mRNA during translation. Alternative splicing results in multiple transcript variants, some of which are derived from alternative promoter usage.
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol
Bio-activity	In vitro translation assay
Molecular Mass	154.6 kDa
AA Sequence	TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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Product-Related Proteins	TA50011-100 LC417630 RC212877
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Usage	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL

GENE INFORMATION

Gene Name	EIF4G1 eukaryotic translation initiation factor 4 gamma 1 [Homo sapiens (human)]
Official Symbol	EIF4G1
Synonyms	EIF-4G1; EIF4F; EIF4G; EIF4GI; P220; PARK18
Gene ID	1981
mRNA Refseq	NM_004953
Protein Refseq	NP_004944
MIM	600495

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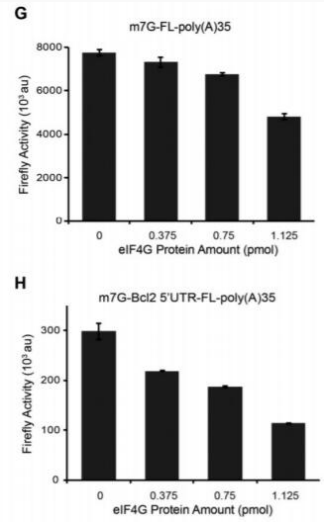
UniProt ID	Q04637



Recombinant eIF4GI fails to stimulate capdependent translation. Translation of m7GpppGFL-poly (A)35 and m7GpppG-Bcl2 5'UTR-FL-poly (A)35 was determined in nuclease-untreated rabbit reticulocyte lysates supplemented with the indicated amounts (pmol) of the full-length eIF4GI.

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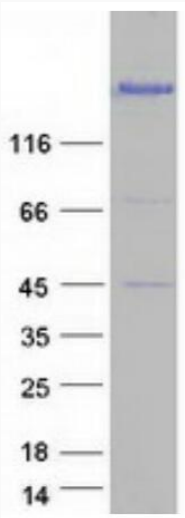

Coomassie blue staining of purified EIF4G1 protein. The protein was produced from HEK293T cells transfected with EIF4G1 cDNA clone using MegaTran 2.0.

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