

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	<p>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.</p>
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

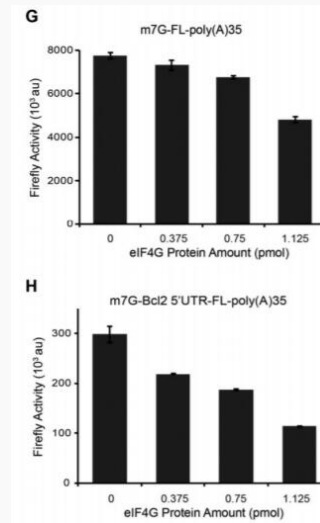
GENE INFORMATION

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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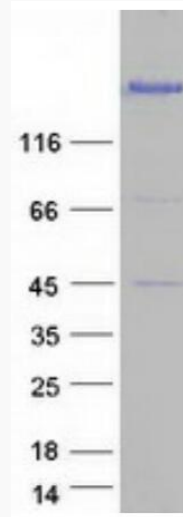
UniProt ID
Q04637


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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