

Recombinant Full Length Human EIF2A Protein, GST-tagged

Cat. No. EIF2A-4408HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human EIF2A full-length ORF (AAH11885.1, 1 a.a. - 585 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	585 amino acids
Description	<p>This gene encodes a eukaryotic translation initiation factor that catalyzes the formation of puromycin-sensitive 80 S preinitiation complexes and the poly(U)-directed synthesis of polyphenylalanine at low concentrations of Mg²⁺. This gene should not be confused with eIF2-alpha (EIF2S1, Gene ID: 1965), the alpha subunit of the eIF2 translation initiation complex. Although both of these proteins function in binding initiator tRNA to the 40 S ribosomal subunit, the encoded protein does so in a codon-dependent manner, whereas eIF2 complex requires GTP. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms.</p> <p>[provided by RefSeq, Jan 2016]</p>
Molecular Mass	91.4 kDa
AA Sequence	<pre>MAPSTPLLTVRGSEGLYMVNGPPHFTESTVFPRESGKNCKVCIFSKDGTLFAWGNG EKVNIISVTNKGLLHSHFDLLKAVCLEFSPKNTVLATWQPYYTTSKDGTAGIPNLQLYDV KTGTCLKSFIQKKMQNWCPSEDETLCAENVNNEVHFFENNNFNTIANKLHLQKI NDFVLSPPGPQPYKVAVYVPGSKGAPSFVRLYQYPNFAGPHAALANKSFFKADKVTM</pre>

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LWNKKATAVLVIASDVKDVTGASYYGEQTLHYIATNGESAVVQLPKNGPIYDVVWNS
 SSTEFCAVYGFMPAKATIFNLKCDPVDFDGTGPRNAAYYSPHGHILVLAGFGNLRGQ
 MEVWDVKNYKLISKPVASDSTYFAWCPDGEHILTATCAPRLRVNNGYKIWHYTGSIL
 HKYDVPSNAELWQVSWQPFLDGIFPAKTITYQAVPSEVPNEEPKVATAYRPPALRN
 KPITNSKLHEEPPQNMKPQSGNDKPLSKTALKNQRKHEAKKAAKQEARSDKSPDL
 APTPAPQSTPRNTVSQSISGDPEIDKKIKNLKKKLAIEQLKEQAATGKQLEKNQLEKI
 QKETALLQELEDLKLGI

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
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Notes	Best use within three months from the date of receipt of this protein.
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Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
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Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
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GENE INFORMATION

Gene Name	EIF2A eukaryotic translation initiation factor 2A, 65kDa [Homo sapiens]
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Official Symbol	EIF2A
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Synonyms	EIF2A; eukaryotic translation initiation factor 2A, 65kDa; eukaryotic translation initiation factor 2A; EIF 2A; 65 kDa eukaryotic translation initiation factor 2A; CDA02; EIF-2A; MST089; MSTP004; MSTP089;
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Gene ID	83939
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mRNA Refseq	NM_032025
Protein Refseq	NP_114414
MIM	609234
UniProt ID	Q9BY44

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