

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	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. [provided by RefSeq, Jan 2016]
Molecular Mass	91.4 kDa
AA Sequence	MAPSTPLLTVRGSEGLYMVNGPPHFTESTVFPRESGKNCKVCIFSKDGTLFAWGNG EKVNIISVTNKGLLHSFDLLKAVCLEFSPKNTVLATWQPYTTSKDGTAGIPNLQLYDV KTGTCLKSFIQKKMQNWCPSWSEDETLCAENVNNEVHFFENNNFNTIANKLHLQKI NDFVLSPGPQPYKVAVYVPGSKGAPSFVRLYQYPNFAGPHAALANKSFFKADKVTM

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LWNKKATAVLVIASDVKDGTGASYGQTLHYIATNGESAVVQLPKNGPIYDVVWNS
 SSTEFCAVYGFMPAKATIFNLKCDPVDFGTGPRNAAYYSPHGHLVLAGFGNLRGQ
 MEVWDVKNYKLISKPVASDSTYFAWCPDGEHILTATCAPRLRVNNGYKIWHYTGSIL
 HKYDVPSNAELWQVSWQPFLDGIFPAKTITYQAVPSEVPNEEPKVATAYRPPALRN
 KPITNSKLHEEEPPQNMKPQSGNDKPLSKTALKNQRKHEAKKAAKQEARSDKSPDL
 APTPAPQSTPRNTVSQSISGDPEIDKKIKNLKKKLKAIEQLKEQAATGKQLEKNQLEKI
 QKETALLQELEDLKLGI

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

EIF2A eukaryotic translation initiation factor 2A, 65kDa [Homo sapiens]

Official Symbol

EIF2A

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;

Gene ID

83939

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mRNA Refseq	NM_032025
Protein Refseq	NP_114414
MIM	609234
UniProt ID	Q9BY44

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