

# Recombinant Full Length Human EIF2S1 Protein, GST-tagged

**Cat. No.** EIF2S1-4186HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human EIF2S1 full-length ORF ( AAH02513.1, 1 a.a. - 315 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	315 amino acids
<b>Description</b>	The translation initiation factor EIF2 catalyzes the first regulated step of protein synthesis initiation, promoting the binding of the initiator tRNA to 40S ribosomal subunits. Binding occurs as a ternary complex of methionyl-tRNA, EIF2, and GTP. EIF2 is composed of 3 nonidentical subunits, the 36-kD EIF2-alpha subunit (EIF2S1), the 38-kD EIF2-beta subunit (EIF2S2; MIM 603908), and the 52-kD EIF2-gamma subunit (EIF2S3; MIM 300161). The rate of formation of the ternary complex is modulated by the phosphorylation state of EIF2-alpha (Ernst et al., 1987 [PubMed 2948954]).[supplied by OMIM, Feb 2010]
<b>Molecular Mass</b>	60.39 kDa
<b>AA Sequence</b>	MPGLSCRFYQHKFPEVEDVVMVNVRSIAEMGAYVSLLEYNNIEGMILLSELSRRRIR SINKLIRIGRNECVVIRVDKEKGYIDLKRRVSPPEAIKCEDKFTKSKTVYSILRHVAE VLEYTKDEQLESFLQRTAWVFDDKYKRPGYGAYDAFKHAVSDPSILDSDLNEDER EVLINNINRRLTPQAVKIRADIEVACYGYEGIDAVKEALRAGLNCSTENMPIKINLIAPP RYVMTTTTLTERTEGLSVLSQAMAVIKEKIEEKRGVFNVMQMEPKVVTDTDETELARQM

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**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**

[EIF2S1 eukaryotic translation initiation factor 2, subunit 1 alpha, 35kDa \[ Homo sapiens \]](#)

**Official Symbol**

[EIF2S1](#)

**Synonyms**

EIF2S1; eukaryotic translation initiation factor 2, subunit 1 alpha, 35kDa; EIF2, eukaryotic translation initiation factor 2, subunit 1 (alpha, 35kD ); eukaryotic translation initiation factor 2 subunit 1; EIF 2alpha; EIF2A; eIF-2-alpha; eukaryotic translation initiation factor 2 subunit alpha; EIF2; EIF-2; EIF-2A; EIF-2alpha;

**Gene ID**

[1965](#)

**mRNA Refseq**

[NM\\_004094](#)

**Protein Refseq**

[NP\\_004085](#)

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**MIM** 603907

**UniProt ID** P05198

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