

Recombinant Full Length Human EIF2S1 Protein, GST-tagged

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

SPECIFICATION

Product Overview	Human EIF2S1 full-length ORF (AAH02513.1, 1 a.a. - 315 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	315 amino acids
Description	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]
Molecular Mass	60.39 kDa
AA Sequence	MPGLSCRFYQHKFPEVEDVVMVNVRSIAEMGAYVSLLEYNNIEGMILLSELSRRRIR SINKLIRIGRNECVVIRVDKEKGYIDLKRRVSPPEAIKCEDKFTKSKTVYSILRHVAE VLEYTKDEQLES LFQRTAWVFDDKYKRPGYGAYDAFKHAVSDPSILDSLNLNEDER EVLINNINRRRLTPQAVKIRADIEVACYGYEGIDAVKEALRAGLNCSTENMPIKINLIAPP RYVMTTTTLERTEGLSVLSQAMAVIKEKIEEKRGVFNVQMEPKVVTDTDETELARQM

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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
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UniProt ID	P05198
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