

Recombinant Human EIF2S1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. EIF2S1-3542H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	EIF2S1 MS Standard C13 and N15-labeled recombinant protein (NP_004085) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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), and the 52-kD EIF2-gamma subunit (EIF2S3). The rate of formation of the ternary complex is modulated by the phosphorylation state of EIF2-alpha.
Molecular Mass	36.1 kDa
AA Sequence	MPGLSCRFYQHKFPEVEDVVMVNVRSIAEMGAYVSLLEYNNIEGMILLSELSRRRIR SINKLIRIGRNECVVIRVDKEKGYIDLKRRVSPEEAIKCEDKFTKSKTVYSILRHVAE VLEYTKDEQLESFQRTAWVFDDKYKRPGYGAYDAFKHAVSDPSILDSLNLNEDER EVLINNINRRLTPQAVKIRADIEVACYGYEGIDAVKEALRAGLNCSTENMPIKINLIAPP RYVMTTTTLTERTEGLSVLSQAMAVIKEKIEEKRGVFNVMQEPKVVTDTDETELARQM ERLERENAEVDGDDDAEEMEAKAEDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	EIF2S1 eukaryotic translation initiation factor 2 subunit alpha [Homo sapiens (human)]
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
MIM	603907

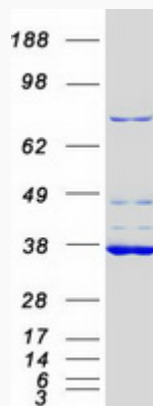
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UniProt ID P05198

SDS-PAGE



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