

Recombinant Full Length Human EIF2S1 Protein, C-Flag-tagged

Cat. No. EIF2S1-262HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human EIF2S1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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, and the 52-kD EIF2-gamma subunit. The rate of formation of the ternary complex is modulated by the phosphorylation state of EIF2-alpha.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	35.9 kDa
AA Sequence	MPGLSCRFYQHKFPEVEDVVMVNVRSIAEMGAYVSLLEYNNIEGMILLSELSRRRIR SINKLIRIGRNEC VVIRVDKEKGYIDLSKRRVSPEEAIKCEDKFTKSKTVYSILRHVA EVLEYTKDEQLES LFQRTAWVFDD KYKRPGYGAYDAFKHAVSDPSILDSLNLNEDE REVLINNINRRLTPQAVKIRADIEVACYGYEGIDAVKE ALRAGLNCSTENMPIKINLIAP PRYVMTTTTTLERTEGLSVLSQAMAVIKEKIEEKRGVFNVQMEPKVVTD

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	TDETELARQMERLERENAEVDGDDDAEEMEAKAEDTRTRPLEQKLISEEDLAANDIL DYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Full Length	Full L.

GENE INFORMATION

Gene Name	EIF2S1 eukaryotic translation initiation factor 2 subunit alpha [Homo sapiens (human)]
Official Symbol	EIF2S1
Synonyms	EIF2; EIF-2; EIF2A; EIF-2A; EIF-2alpha
Gene ID	1965
mRNA Refseq	NM_004094.5
Protein Refseq	NP_004085.1

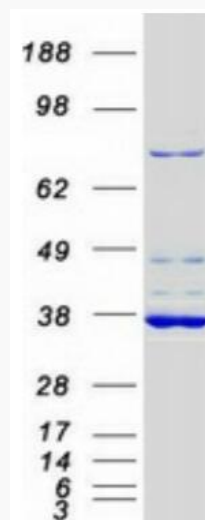
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MIM 603907

UniProt ID P05198



Coomassie blue staining of purified EIF2S1 protein.

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