

Eukaryotic Translation Initiation Factor 2 Subunit 1 Alpha Recombinant Protein | EIF2S1 recombinant protein

Recombinant Human Eukaryotic Translation Initiation Factor 2 Subunit 1 Alpha

CATALOG #
AAA38799

PRODUCT SYNONYMS

Eukaryotic Translation Initiation Factor 2 Subunit 1 Alpha; Recombinant Human Eukaryotic Translation Initiation Factor 2 Subunit 1 Alpha; Eukaryotic translation initiation factor 2 subunit 1; Eukaryotic translation initiation factor 2 subunit alpha; eIF-2-alpha; EIF-2alpha; EIF-2A; EIF2; EIF-2; EIF2A; EIF-2A.; EIF2S1 recombinant protein

PRODUCT SPECIFICATIONS

Purity/Purification	Greater than 85% as determined by SDS-PAGE.
Form/Format	The EIF2S1 protein solution (0.5mg/ml) containing 20mM Tris-HCl pH-8, 0.1M NaCl & 10% glycerol
Sequence	MGSSHHH HHHSSGLVPR GSHMPG LSCRFYQHKF PEVEDVVMVN VRSIAEMGAY VSLLEYNIE GMILLSELSR RRIRSINKLI RIGRNECVVV IRVDKEKGYI DLSKRRVSPE EAIKCEDKFT KSKTVYSILR HVAEVLEYTK DEQLESFQR TAWVFDDKYK RPYGAYDAF KHAVSDPSIL DSLDLNEDER EVLINNINRR LTPQAVKIRA DIEVACYGYE GIDAVKEALR AGLNCSTENM PIKINLIAPP RYVMTTTTLE RTEGLSVLSQ AMAVIKEKIE EKRGVFNVQM EPKVVTDTDE TELARQMERL ERENAEVDGD DDAEEMEAKA ED
Sequence Length	315
Source	E Coli
Physical Appearance	Sterile filtered colorless solution
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for EIF2S1 recombinant protein	Description: EIF2S1 Recombinant Human produced in E Coli is a single, non-glycosylated polypeptide chain containing 335 amino acids (1-315 a.a.) and having a molecular mass of 38.2 kDa. The EIF2S1 is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques. Introduction: EIF2S1 participates in the premature steps of protein synthesis by forming a ternary complex with GTP and initiator tRNA which binds to a 40S ribosomal subunit, followed by mRNA binding to create a 43S pre-initiation complex. Junction of the 60S ribosomal subunit to form the 80S initiation complex is preceded by hydrolysis of the GTP bound to eIF-2 and release of an eIF-2-GDP binary complex. In order for eIF-2 to recycle and catalyze another round of initiation, the GDP bound to eIF-2 should exchange with GTP by way of a reaction catalyzed by eIF-2B.
Product Categories/Family for EIF2S1 recombinant protein	Recombinant & Natural Proteins; Recombinant Proteins; Eukaryotic Translation Initiation Factor

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758256
NCBI GeneID	1965
NCBI Accession #	NP_004085.1

NCBI GenBank Nucleotide #	NM_004094.4
UniProt Accession #	P05198
Molecular Weight	36,112 Da
NCBI Official Full Name	eukaryotic translation initiation factor 2 subunit 1
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 2, subunit 1 alpha, 35kDa
NCBI Official Symbol	EIF2S1
NCBI Official Synonym Symbols	EIF2; EIF-2; EIF2A; EIF-2A; EIF-2alpha
NCBI Protein Information	eukaryotic translation initiation factor 2 subunit 1; eIF-2-alpha; eukaryotic translation initiation factor 2 subunit alpha
UniProt Protein Name	Eukaryotic translation initiation factor 2 subunit 1
UniProt Gene Name	EIF2S1
UniProt Synonym Gene Names	EIF2A; eIF-2-alpha; eIF-2A; eIF-2alpha
UniProt Entry Name	IF2A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/eif2s1-recombinant-protein/38799>