

Recombinant Human EIF2S1, His-tagged

Cat. No. EIF2S1-2501H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human EIF2S1 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 38.2 kDa (335aa).
Species	Human
Source	E.coli
Description	EIF2S1, also known as eIF2 α , is the alpha subunit of the translation initiation factor eIF2 complex which catalyzes the first regulated step of protein synthesis initiation, promoting the binding of the initiator tRNA to 40S ribosomal subunits. The phosphorylation state of eIF2S1 controls the rate of tRNA translation. When eIF2 α is not phosphorylated, translation occurs at a normal rate. However, upon phosphorylation by one of several kinases, eIF2S1 is stabilized, thus preventing the GDP/GTP exchange reaction and slowing translation.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.1M NaCl.
Purity	> 85% by SDS – PAGE.
Concentration	0.5 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MPGLSCRFYQ HKFPEVEDVV MVNVRSAEM GAYVSLLEYN NIEGMILLSE LSRRRIRISIN KLIRIGRNEC VVIRVDKEK GYIDLSKRRV SPEEAIKCED KFTKSKTVYS ILRHVAEVLE YTKDEQLESL

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FQRTAWVFDD KYKRPGYGAY DAFKHAVSDP SILDSLNE DEREVLINNI
 NRRLTPQAVK IRADIEVACY GYEGIDAVKE ALRAGLNCST ENMPIKINLI
 APPRYVMTT TLERTEGLSV LSQAMAVIKE KIEEKG VFN VQMEPKVVTD
 TDETLARQM ERLERENAEV DGDDDAEEME AKAED.

Storage

can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

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

Synonyms

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

Gene ID

1965

mRNA Refseq

NM_004094

Protein Refseq

NP_004085

MIM

603907

UniProt ID

eukaryotic translation initiation factor 2 subunit alpha

**Chromosome
Location**

14q23.3

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Pathway	Diabetes pathways; Gene Expression; Metabolism of proteins
Function	RNA binding; protein binding; translation initiation factor activity

PDB rendering based
on 1kl9.

