9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

EIF2S1 Human

Eukaryotic Translation Initiation Factor 2 Subunit 1 Alpha Human Recombinant RCP0733

Product Overview

Name	EIF2S1 Human

Description

Eukaryotic Translation Initiation Factor 2 Subunit 1 Alpha Human Recombinant

Accession (Primary)	P05198

Synonyms

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.

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.

Source

Escherichia Coli.

Physical Appearance

Sterile filtered colorless solution.

Formulation

0.5mg/ml solution containing 20mM Tris-HCl pH-8, 0.1M NaCl & 10% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°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.

Purity

Greater than 85% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MPGLSCRFYQ HKFPEVEDVV MVNVRSIAEM GAYVSLLEYN NIEGMILLSE LSRRRIRSIN KLIRIGRNEC VVVIRVDKEK GYIDLSKRRV SPEEAIKCED KFTKSKTVYS ILRHVAEVLE YTKDEQLESL FQRTAWVFDD KYKRPGYGAY DAFKHAVSDP SILDSLDLNE DEREVLINNI NRRLTPQAVK

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IRADIEVACY GYEGIDAVKE ALRAGLNCST ENMPIKINLI APPRYVMTTT TLERTEGLSV LSQAMAVIKE KIEEKRGVFN VQMEPKVVTD TDETELARQM ERLERENAEV DGDDDAEEME AKAED

Precautions

EIF2S1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P05198)