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EIF5A Human

Eukaryotic Translation Initiation Factor 5A Human Recombinant
RCP0747

Product Overview

Name	EIF5A Human
Description	
Eukaryotic Translation Initiation Factor 5A Human Recombinant	
Accession (Primary)	P63241
Synonyms	
EIF-5A, EIF5A1, eIF5AI, MGC99547, MGC104255, EIF5A, Eukaryotic translation initiation factor 5A-1, eIF-5A-1, eIF-5A1, Eukaryotic initiation factor 5A isoform 1, eIF-4D, Rev-binding factor.	
Introduction	
EIF5A is the single protein identified to contain remarkable amino acid formed by the action of deoxyhypusine synthase and deoxyhypusine hydroxylase using spermidine as the substrate. EIF5A takes part in the first step of peptide bond formation in translation, nevertheless further experiments implicates it as a universally conserved translation elongation factor. Modulation of EIF5A is connected to proliferation and cancer. Expression of EIF-5A is upregulated in the PBMCs of HIV-1 patients. EIF5A coordinates significant cellular processes like cell viability and senescence during its effects on the stability of certain mRNAs. Heat stress-induced loss of EIF-5A in a human pancreatic cancer cell line. EIF5A stability takes part in determining the fate of the particular cell type after severe heat stress.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile filtered colorless solution.	
Formulation	
The EIF5A protein solution (1mg/ml) contains 50mM Tris-HCl, pH-7.5 and 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 95.0% as determined by SDS-PAGE.	
Amino acid sequence	

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MADDLDFETG DAGASATFPM QCSALRKNGF VVLKGRPCKI VEMSTSKTGK HGHAKVHLVG IDIFTGKKYE DICPSTHNMD VPNIKRNDFQ LIGIQDGYLS LLQDSGEVRE DLRLPEGDLG KEIEQKYDCG EEILITVLSA MTEEAAVAIK AMAK.

References

Title: Inhibition of Deoxyhypusine Synthase Enhances Islet b Cell Function and Survival in the Setting of Endoplasmic Reticulum Stress and Type 2 Diabetes Publication: Journal of Biological Chemistry 285.51 (2010): 39943-39952. Link: EIF5A prospec publication

Precautions

EIF5A Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P63241)