Datasheet for ABIN7554148

EIF5B Protein (AA 1-1220) (His tag)

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Overview

Quantity:	1 mg
Target:	EIF5B
Protein Characteristics:	AA 1-1220
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EIF5B protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant EIF5B Protein expressed in mammalian cells.
Sequence:	MGKKQKNKSE DSTKDDIDLD ALAAEIEGAG AAKEQEPQKS KGKKKKEKKK QDFDEDDILK ELEELSLEAQ GIKADRETVA VKPTENNEEE FTSKDKKKKG QKGKKQSFDD NDSEELEDKD SKSKKTAKPK VEMYSGSDDD DDFNKLPKKA KGKAQKSNKK WDGSEEDEDN SKKIKERSRI NSSGESGDES DEFLQSRKGQ KKNQKNKPGP NIESGNEDDD ASFKIKTVAQ KKAEKKERER KKRDEEKAKL RKLKEKEELE TGKKDQSKQK ESQRKFEEET VKSKVTVDTG VIPASEEKAE TPTAAEDDNE GDKKKKDKKK KKGEKEEKEK EKKKGPSKAT VKAMQEALAK LKEEEERQKR EEEERIKRLE ELEAKRKEEE RLEQEKRERK KQKEKERKER LKKEGKLLTK SQREARARAE ATLKLLQAQG VEVPSKDSLP KKRPIYEDKK RKKIPQQLES KEVSESMELC AAVEVMEQGV PEKEETPPPV EPEEEEDTED AGLDDWEAMA SDEETEKVEG NKVHIEVKEN PEEEEEEEEE EEEDEESEEE EEEEGESEGS EGDEEDEKVS DEKDSGKTLD KKPSKEMSSD SEYDSDDDRT KEERAYDKAK RRIEKRRLEH SKNVNTEKLR APIICVLGHV DTGKTKILDK LRHTHVQDGE AGGITQQIGA TNVPLEAINE QTKMIKNFDR ENVRIPGMLI IDTPGHESFS NLRNRGSSLC

Product Details

	DIAILVVDIM HGLEPQTIES INLLKSKKCP FIVALNKIDR LYDWKKSPDS DVAATLKKQK KNTKDEFEER AKAIIVEFAQ QGLNAALFYE NKDPRTFVSL VPTSAHTGDG MGSLIYLLVE LTQTMLSKRL AHCEELRAQV MEVKALPGMG TTIDVILING RLKEGDTIIV PGVEGPIVTQ IRGLLLPPPM KELRVKNQYE KHKEVEAAQG VKILGKDLEK TLAGLPLLVA YKEDEIPVLK DELIHELKQT LNAIKLEEKG VYVQASTLGS LEALLEFLKT SEVPYAGINI GPVHKKDVMK ASVMLEHDPQ YAVILAFDVR IERDAQEMAD SLGVRIFSAE IIYHLFDAFT KYRQDYKKQK QEEFKHIAVF PCKIKILPQY IFNSRDPIVM GVTVEAGQVK QGTPMCVPSK NFVDIGIVTS IEINHKQVDV AKKGQEVCVK IEPIPGESPK MFGRHFEATD ILVSKISRQS IDALKDWFRD EMQKSDWQLI VELKKVFEII **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	EIF5B
Alternative Name:	EIF5B (EIF5B Products)

Target Details

Background:	Eukaryotic translation initiation factor 5B (eIF-5B) (EC 3.6.5.3) (Translation initiation factor IF-2),FUNCTION: Plays a role in translation initiation (PubMed:10659855, PubMed:35732735). Ribosome-dependent GTPase that promotes the joining of the 60S ribosomal subunit to the pre-initiation complex to form the 80S initiation complex with the initiator methionine-tRNA in the P-site base paired to the start codon (PubMed:10659855, PubMed:35732735). Together with eIF1A (EIF1AX), actively orients the initiator methionine-tRNA in a conformation that allows 60S ribosomal subunit joining to form the 80S initiation complex (PubMed:12569173, PubMed:35732735). Is released after formation of the 80S initiation complex (PubMed:35732735). Its GTPase activity is not essential for ribosomal subunits joining, but GTP hydrolysis is needed for eIF1A (EIF1AX) ejection quickly followed by EIF5B release to form elongation-competent ribosomes (PubMed:10659855, PubMed:35732735). In contrast to its procaryotic homolog, does not promote recruitment of Met-rRNA to the small ribosomal subunit (PubMed:10659855). {ECO:0000269|PubMed:10659855, ECO:0000269|PubMed:12569173, ECO:0000269|PubMed:35732735}.
Molecular Weight:	138.8 kDa
UniProt:	O60841

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months