

Datasheet for ABIN7563603  
**EIF5B Protein (AA 1-1216) (His tag)**



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## Overview

Quantity:	1 mg
Target:	EIF5B
Protein Characteristics:	AA 1-1216
Origin:	Mouse
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 DSTKDDTDLG ALAAEIEGAG AAKEQEPQKS KGKKKKEKKK QDFDENDILR ELEELSLEAQ GIRADRDAVA VKPTENNEEE SASKQDKKKK GQKGKKSFD ENDSEELEDK DSKSKKTARP NSEAPLSGSE DADDSNKLK KGKKAQKSTK KRDGSEDED NSKRKRSR VNSSGESGGE SDFLQSRKG QKKNQKNKSV PTVDSGNEDD DSSFKIKTVA QKKAEEKERE KKKRDEEKAK LRKMKEKEEL EKGKKEQSKQ REPQKRPEEE VLTLRGTPDT GAASEEKGDT AAALEDDNEG DKKKKDKKKK KTEKDEKEKE KKKGPSKSTV KAIQALAKL KEEERQKRE EEERIKLEE LEAKRKEER LEQEKREKK QKEKERKERL KKEGKLLTKS QREARARAEV TLRHLQAQGV EVPSKDSLK KRPVYEDKKK KKTPQQLSK EVSETLEISA PVEAVDQGGP EKEETPPSVE PEEEEETEDA GLDDWEAMAS DEEREKEGNM IHIEVEENPE EEEEEEEEE EESEDEEEE GDESGSDGDE EDCKLSDEKD SGKAGDTKPS KDASSDSEYD SDDDRKTEER AYDKAKRRIE KRRLEHGKNV NTEKLRAPII CVLGHVDTGK TKILDCLRHT HVQDGEAGGI TQQIGATNVP LEAINEQTKM IKNFDRENVR IPGMLIIDTP GHESFSNLRN RGSSLCDIAI

## Product Details

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LVVDIMHGLE PQTIESINIL KSKKCPFIVA LNKIDRLYDW KKSPDSVAV TLKKQKNTK  
DEFEERAKAI IVEFAQQGLN AALFYENKDP RTFVSLVPTS AHTGDGMGSL IYLLVELTQT  
MLSKRLAHCE ELRAQVMEVK ALPGMGTTID VILINGRLKE GDTIIVPGVE GPIVTQIRGL  
LLPPPMKELR VKNQYEKHKVEAAQGVKIL GKDLEKTLAG LPLLVAIKDD EIPVLKDELI  
HELKQTLNAI KLEEKGVYVQ ASTLGSLEAL LEFLKTSEVP YAGINIGPVH KKDVMKASVM  
LEHDPQYAVI LAFDVRIERD AQEMADSLGV RIFSAEIIYH LFDAFTKYRQ DYKKQKQEEF  
KHIAVFPCKM KILPQYIFNS RDPVIGVTV EAGQVKQGTP MCVPSKNFVD IGVTSIEIN  
HKQVDVAKKG QEVCVKIEPI PGESPKMFGR HFEATDILVS KISRQSIDAL KDWFRDEMOK  
SDWQLLIVELK KVFEII **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.**

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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.

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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.

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Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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Grade: custom-made

## Target Details

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Target: EIF5B

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Alternative Name: Eif5b ([EIF5B Products](#))

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## Target Details

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**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. 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. 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. Is released after formation of the 80S initiation complex. 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. In contrast to its procaryotic homolog, does not promote recruitment of Met-rRNA to the small ribosomal subunit. {ECO:0000250|UniProtKB:O60841}.

**Molecular Weight:** 137.6 kDa

**UniProt:** [Q05D44](#)

## Application Details

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**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

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**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