Datasheet for ABIN7554181

EIF4G1 Protein (AA 1-1599) (His tag)

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Overview

Quantity:	1 mg
Target:	EIF4G1
Protein Characteristics:	AA 1-1599
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EIF4G1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant EIF4G1 Protein expressed in mammalian cells.
Sequence:	MNKAPQSTGP PPAPSPGLPQ PAFPPGQTAP VVFSTPQATQ MNTPSQPRQH FYPSRAQPPS SAASRVQSAA PARPGPAAHV YPAGSQVMMI PSQISYPASQ GAYYIPGQGR STYVVPTQQY PVQPGAPGFY PGASPTEFGT YAGAYYPAQG VQQFPTGVAP TPVLMNQPPQ IAPKRERKTI RIRDPNQGGK DITEEIMSGA RTASTPTPPQ TGGGLEPQAN GETPQVAVIV RPDDRSQGAI IADRPGLPGP EHSPSESQPS SPSPTPSPSP VLEPGSEPNL AVLSIPGDTM TTIQMSVEES TPISRETGEP YRLSPEPTPL AEPILEVEVT LSKPVPESEF SSSPLQAPTP LASHTVEIHE PNGMVPSEDL EPEVESSPEL APPPACPSES PVPIAPTAQP EELLNGAPSP PAVDLSPVSE PEEQAKEVTA SMAPPTIPSA TPATAPSATS PAQEEEMEEE EEEEEGEAGE AGEAESEKGG EELLPPESTP IPANLSQNLE AAAATQVAVS VPKRRRKIKE LNKKEAVGDL LDAFKEANPA VPEVENQPPA GSNPGPESEG SGVPPRPEEA DETWDSKEDK IHNAENIQPG EQKYEYKSDQ WKPLNLEEKK RYDREFLLGF QFIFASMQKP EGLPHISDVV LDKANKTPLR PLDPTRLQGI NCGPDFTPSF ANLGRTTLST RGPPRGGPGG ELPRGPAGLG PRRSQQGPRK EPRKIIATVL

	MTEDIKLNKA EKAWKPSSKR TAADKDRGEE DADGSKTQDL FRRVRSILNK LTPQMFQQLM KQVTQLAIDT EERLKGVIDL IFEKAISEPN FSVAYANMCR CLMALKVPTT EKPTVTVNFR KLLLNRCQKE FEKDKDDDEV FEKKQKEMDE AATAEERGRL KEELEEARDI ARRRSLGNIK FIGELFKLKM LTEAIMHDCV VKLLKNHDEE SLECLCRLLT TIGKDLDFEK AKPRMDQYFN QMEKIIKEKK TSSRIRFMLQ DVLDLRGSNW VPRRGDQGPK TIDQIHKEAE MEEHREHIKV QQLMAKGSDK RRGGPPGPPI SRGLPLVDDG GWNTVPISKG SRPIDTSRLT KITKPGSIDS NNQLFAPGGR LSWGKGSSGG SGAKPSDAAS EAARPATSTL NRFSALQQAV PTESTDNRRV VQRSSLSRER GEKAGDRGDR LERSERGGDR GDRLDRARTP ATKRSFSKEV EERSRERPSQ PEGLRKAASL TEDRDRGRDA VKREAALPPV SPLKAALSEE ELEKKSKAII EEYLHLNDMK EAVQCVQELA SPSLLFIFVR HGVESTLERS AIAREHMGQL LHQLLCAGHL STAQYYQGLY EILELAEDME IDIPHVWLYL AELVTPILQE GGVPMGELFR EITKPLRPLG KAASLLLEIL GLLCKSMGPK KVGTLWREAG LSWKEFLPEG QDIGAFVAEQ KVEYTLGEES EAPGQRALPS EELNRQLEKL LKEGSSNQRV FDWIEANLSE QQIVSNTLVR ALMTAVCYSA IIFETPLRVD VAVLKARAKL LQKYLCDEQK ELQALYALQA LVVTLEQPPN LLRMFFDALY DEDVVKEDAF YSWESSKDPA EQQGKGVALK SVTAFFKWLR EAEEESDHN **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.

Product Details

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

Target Details

Target:	EIF4G1
Alternative Name:	EIF4G1 (EIF4G1 Products)
Background:	Eukaryotic translation initiation factor 4 gamma 1 (eIF-4-gamma 1) (eIF-4G 1) (eIF-4G1) (p220),FUNCTION: Component of the protein complex eIF4F, which is involved in the recognition of the mRNA cap, ATP-dependent unwinding of 5'-terminal secondary structure and recruitment of mRNA to the ribosome (PubMed:29987188). Exists in two complexes, either with EIF1 or with EIF4E (mutually exclusive) (PubMed:29987188). Together with EIF1, is required for leaky scanning, in particular for avoiding cap-proximal start codon (PubMed:29987188). Together with EIF4E, antagonizes the scanning promoted by EIF1-EIF4G1 and locates the start codon (through a TISU element) without scanning (PubMed:29987188). As a member of the eIF4F complex, required for endoplasmic reticulum stress-induced ATF4 mRNA translation (PubMed:29062139). {ECO:0000269|PubMed:29062139, ECO:0000269|PubMed:29987188}.
Molecular Weight:	175.5 kDa
UniProt:	Q04637

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