Datasheet for ABIN7554109

HERC5 Protein (AA 1-1024) (His tag)

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Overview

Quantity:	1 mg
Target:	HERC5
Protein Characteristics:	AA 1-1024
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HERC5 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant HERC5 Protein expressed in mammalian cells.
Sequence:	MERRSRRKSR RNGRSTAGKA AATQPAKSPG AQLWLFPSAA GLHRALLRRV EVTRQLCCSP GRLAVLERGG AGVQVHQLLA GSGGARTPKC IKLGKNMKIH SVDQGAEHML ILSSDGKPFE YDNYSMKHLR FESILQEKKI IQITCGDYHS LALSKGGELF AWGQNLHGQL GVGRKFPSTT TPQIVEHLAG VPLAQISAGE AHSMALSMSG NIYSWGKNEC GQLGLGHTES KDDPSLIEGL DNQKVEFVAC GGSHSALLTQ DGLLFTFGAG KHGQLGHNST QNELRPCLVA ELVGYRVTQI ACGRWHTLAY VSDLGKVFSF GSGKDGQLGN GGTRDQLMPL PVKVSSSEEL KLESHTSEKE LIMIAGGNQS ILLWIKKENS YVNLKRTIPT LNEGTVKRWI ADVETKRWQS TKREIQEIFS SPACLTGSFL RKRRTTEMMP VYLDLNKARN IFKELTQKDW ITNMITTCLK DNLLKRLPFH SPPQEALEIF FLLPECPMMH ISNNWESLVV PFAKVVCKMS DQSSLVLEEY WATLQESTFS KLVQMFKTAV ICQLDYWDES AEENGNVQAL LEMLKKLHRV NQVKCQLPES IFQVDELLHR LNFFVEVCRR YLWKMTVDAS ENVQCCVIFS HFPFIFNNLS KIKLLHTDTL LKIESKKHKA YLRSAAIEEE RESEFALRPT FDLTVRRNHL IEDVLNQLSQ FENEDLRKEL WVSFSGEIGY

Product Details

	DLGGVKKEFF YCLFAEMIQP EYGMFMYPEG ASCMWFPVKP KFEKKRYFFF GVLCGLSLFN CNVANLPFPL ALFKKLLDQM PSLEDLKELS PDLGKNLQTL LDDEGDNFEE VFYIHFNVHW DRNDTNLIPN GSSITVNQTN KRDYVSKYIN YIFNDSVKAV YEEFRRGFYK MCDEDIIKLF HPEELKDVIV GNTDYDWKTF EKNARYEPGY NSSHPTIVMF WKAFHKLTLE EKKKFLVFLT GTDRLQMKDL NNMKITFCCP ESWNERDPIR ALTCFSVLFL PKYSTMETVE EALQEAINNN RGFG **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:	HERC5
Alternative Name:	HERC5 (HERC5 Products)
Background:	E3 ISG15--protein ligase HERC5 (EC 2.3.2.-) (Cyclin-E-binding protein 1) (HECT domain and RCC1-like domain-containing protein 5),FUNCTION: Major E3 ligase for ISG15 conjugation (PubMed:26355087, PubMed:27564865, PubMed:27534820, PubMed:34572049,

Target Details

	PubMed:37279284). Acts as a positive regulator of innate antiviral response in cells induced by interferon. Functions as part of the ISGylation machinery that recognizes target proteins in a broad and relatively non-specific manner. Catalyzes ISGylation of IRF3 which results in sustained activation, it attenuates IRF3-PIN1 interaction, which antagonizes IRF3 ubiquitination and degradation, and boosts the antiviral response. Mediates ISGylation of the phosphatase PTEN leading to its degradation, thus alleviating its suppression of the PI3K-AKT signaling pathway and promoting the production of cytokines that facilitate bacterial clearance (PubMed:37279284). Interferes with the function of key viral structural proteins such as ebolavirus structural protein VP40 or HIV-1 protein GAG (PubMed:22093708, PubMed:34572049). Catalyzes ISGylation of influenza A viral NS1 which attenuates virulence, ISGylated NS1 fails to form homodimers and thus to interact with its RNA targets. Catalyzes ISGylation of papillomavirus type 16 L1 protein which results in dominant-negative effect on virus infectivity. Physically associated with polyribosomes, broadly modifies newly synthesized proteins in a cotranslational manner. In an interferon-stimulated cell, newly translated viral proteins are primary targets of ISG15. Promotes parkin/PRKN ubiquitin E3 ligase activity by suppressing the intramolecular interaction that maintains its autoinhibited conformation (PubMed:27534820). {ECO:0000269|PubMed:16407192, ECO:0000269|PubMed:16815975, ECO:0000269|PubMed:16884686, ECO:0000269|PubMed:20133869, ECO:0000269|PubMed:20308324, ECO:0000269|PubMed:20385878, ECO:0000269|PubMed:20542004, ECO:0000269|PubMed:22093708, ECO:0000269|PubMed:26355087, ECO:0000269|PubMed:27534820, ECO:0000269|PubMed:27564865, ECO:0000269|PubMed:34572049, ECO:0000269|PubMed:37279284}., FUNCTION: (Microbial infection) Functions as an E3 ligase for ISGylation of hepatitis B virus protein X leading to enhanced viral replication due to increased interferon resistance. {ECO:0000269|PubMed:34661519}.
Molecular Weight:	116.9 kDa
UniProt:	Q9UII4

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