Datasheet for ABIN7563535

CIITA Protein (AA 1-1155) (His tag)

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Overview

Quantity:	1 mg
Target:	CIITA
Protein Characteristics:	AA 1-1155
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CIITA protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Ciita Protein expressed in mammalian cells.
Sequence:	MNHFQAILAQ VQTLLSSQKP RQVRALLDGL LEEELLSREY HCALLHEPDG DALARKISLT LLEKGDLDLT FLSWVCNSLQ APTVERGTSY RDHGDHSLCA TMDLGSPEGS YLELLNSDAD PLHLYHLYDQ MDLAGEEEIE LSSEPDTDTI NCDQFSKLLQ DMELDEETRE AYANIAELDQ YVFQDTQLEG LSKDLFIEHI GAEEGFGENI EIPVEAGQKP QKRRFPEEHA MDSKHRKLVP TSRTSLNYLD LPTGHIQIFT TLPQGLWQIS GAGTGLSSVL IYHGEMPQVN QVLPSSSLSI PSLPESPDRP GSTSPFTPSA ADLPSMPEPA LTSRVNETED TSPSPCQEGP ESSIKLPKWP EAVERFQHSL QDKYKALPQS PRGPLVAVEL VRARLERGSN KSQERELATP DWTERQLAHG GLAEVLQVVS DCRRPGETQV VAVLGKAGQG KSHWARTVSH TWACGQLLQY DFVFYVPCHC LDRPGDTYHL RDLLCPPSLQ PLAMDDEVLD YIVRQPDRVL LILDAFEELE AQDGLLHGPC GSLSPEPCSL RGLLAGIFQR KLLRGCTLLL TARPRGRLAQ SLSKADAIFE VPSFSTKQAK TYMRHYFENS GTAGNQDKAL GLLEGQPLLC SYSHSPVVCR AVCQLSKALL EQGTEAQLPC TLTGLYVSLL GPAAQNSPPG ALVELAKLAW ELGRRHQSTL QETRFSSVEV KTWAVTQGLM

Product Details

	QQTLETTEAQ LAFSSFLLQC FLGAVWLAQC NEIKDKELPQ YLALTPRKKR PYDNWLEGVP RFLAGLVFQP RAHCLGALVE PAVAAVADRK QKVLTRYLKR LKLGTLRAGR LLELLHCAHE TQQPGIWEHV AHQLPGHLSF LGTRLTPPDV YVLGRALETA SQDFSLDLRQ TGVEPSGLGN LVGLSCVTSF RASLSDTMAL WESLQQQGEA QLLQAAEEKF TIEPFKAKSP KDVEDLDRLV QTQRLRNPSE DAAKDLPAIR DLKKLEFALG PILGPQAFPT LAKILPAFSS LQHLDLDSLS ENKIGDKGVS KLSATFPQLK ALETLNLSQN NITDVGACKL AEALPALAKS LLRLSLYNNC ICDKGAKSLA QVLPDMVSLR VMDVQFNKFT AAGAQQLASS LQKCPQVETL AMWTPTIPFG VQEHLQQLDA RISLR **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:	CIITA
Alternative Name:	Ciita (CIITA Products)
Background:	MHC class II transactivator (CIITA) (EC 2.3.1.-) (EC 2.7.11.1),FUNCTION: Essential for

Target Details

	transcriptional activity of the HLA class II promoter, activation is via the proximal promoter (PubMed:37327784). Does not bind DNA (By similarity). May act in a coactivator-like fashion through protein-protein interactions by contacting factors binding to the proximal MHC class II promoter, to elements of the transcription machinery, or both (By similarity). Alternatively it may activate HLA class II transcription by modifying proteins that bind to the MHC class II promoter (By similarity). Also mediates enhanced MHC class I transcription, the promoter element requirements for CIITA-mediated transcription are distinct from those of constitutive MHC class I transcription, and CIITA can functionally replace TAF1 at these genes (By similarity). Activates CD74 transcription (PubMed:32855215). Exhibits intrinsic GTP-stimulated acetyltransferase activity (By similarity). Exhibits serine/threonine protein kinase activity: phosphorylates the TFIID component TAF7, the RAP74 subunit of the general transcription factor TFIIF, histone H2B at 'Ser-37' and other histones (By similarity). {ECO:0000250|UniProtKB:P33076, ECO:0000269|PubMed:32855215, ECO:0000269|PubMed:37327784}.
Molecular Weight:	127.5 kDa
UniProt:	P79621
Pathways:	Cancer Immune Checkpoints

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