Datasheet for ABIN3091433

CHFR Protein (AA 1-664) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	CHFR
Protein Characteristics:	AA 1-664
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CHFR protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MERPEEGKQS PPPQPWGRLL RLGAEEGEPH VLLRKREWTI GRRRGCDLSF PSNKLVSGDH CRIVVDEKSG QVTLEDTSTS GTVINKLKVV KKQTCPLQTG DVIYLVYRKN EPEHNVAYLY ESLSEKQGMT QESFEANKEN VFHGTKDTSG AGAGRGADPR VPPSSPATQV CFEEPQPSTS TSDLFPTASA SSTEPSPAGR ERSSSCGSGG GGISPKGSGP SVASDEVSSF ASALPDRKTA SFSSLEPQDQ EDLEPVKKKM RGDGDLDLNG QLLVAQPRRN AQTVHEDVRA AAGKPDKMEE TLTCIICQDL LHDCVSLQPC MHTFCAACYS GWMERSSLCP TCRCPVERIC KNHILNNLVE AYLIQHPDKS RSEEDVQSMD ARNKITQDML QPKVRRSFSD EEGSSEDLLE LSDVDSESSD ISQPYVVCRQ CPEYRRQAAQ PPHCPAPEGE PGAPQALGDA PSTSVSLTTA VQDYVCPLQG SHALCTCCFQ PMPDRRAERE QDPRVAPQQC AVCLQPFCHL YWGCTRTGCY GCLAPFCELN LGDKCLDGVL NNNSYESDIL KNYLATRGLT WKNMLTESLV ALQRGVFLLS DYRVTGDTVL CYCCGLRSFR ELTYQYRQNI PASELPVAVT SRPDCYWGRN CRTQVKAHHA MKFNHICEQT RFKN

	Sequence without tag. The proposed Strep-Tag is based on experience s 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.
Characteristics:	Key Benefits: • Made in Germany - from design to production - by highly experienced protein experts. • Protein expressed with ALiCE® and purified in one-step affinity chromatography • These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed). • 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. 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. Expression System: • ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. • During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein! Concentration: • The concentration of our recombinant proteins is measured using the absorbance at 280nm. • The protein's absorbance will be measured against its specific reference buffer. • We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).

Product Details

Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	CHFR
Alternative Name:	CHFR (CHFR Products)
Background:	E3 ubiquitin-protein ligase CHFR (EC 2.3.2.27) (Checkpoint with forkhead and RING finger domains protein) (RING finger protein 196) (RING-type E3 ubiquitin transferase CHFR),FUNCTION: E3 ubiquitin-protein ligase that functions in the antephase checkpoint by actively delaying passage into mitosis in response to microtubule poisons. Acts in early prophase before chromosome condensation, when the centrosome move apart from each other along the periphery of the nucleus. Probably involved in signaling the presence of mitotic stress caused by microtubule poisons by mediating the 'Lys-48'-linked ubiquitination of target proteins, leading to their degradation by the proteasome. Promotes the ubiquitination and subsequent degradation of AURKA and PLK1. Probably acts as a tumor suppressor, possibly by mediating the polyubiquitination of HDAC1, leading to its degradation. May also promote the formation of 'Lys-63'-linked polyubiquitin chains and functions with the specific ubiquitin-conjugating UBC13-MMS2 (UBE2N-UBE2V2) heterodimer. Substrates that are polyubiquitinated at 'Lys-63' are usually not targeted for degradation, but are rather involved in signaling cellular stress. {ECO:0000269|PubMed:10935642, ECO:0000269|PubMed:11807090, ECO:0000269|PubMed:11912157, ECO:0000269|PubMed:14562038, ECO:0000269|PubMed:14694445, ECO:0000269|PubMed:18172500, ECO:0000269|PubMed:19182791}.
Molecular Weight:	73.4 kDa
UniProt:	Q96EP1

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational

Application Details

	modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months