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Datasheet for ABIN3135079

FCHO2 Protein (AA 1-809) (His tag)

1 Image

Overview

Quantity:	1 mg
Target:	FCHO2
Protein Characteristics:	AA 1-809
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FCHO2 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MVMAHFVENF WGEKNNGFDV LYHNMKHGQI STKELADFVR ERATIEEAYS RSMTKLAKSA
SNYSQLGTFA PMWDVFKTST EKLANCHLDL VRKLQELIKE VQKYGEEQVK SHKKTKEEVA
GTLEAVQAIQ NITQALQKSK ENYTAKCVEQ ERLKKEGATQ REIEKAAVKS KKATDITYKLY
VEKYALTKAD FEQKMTETAQ KFQDIEETHL IHIKEIIGSL SNAVKEIHLQ IGQVHEEFIN
NMANTTIESL IQKFAESKGT GKERPGLIEF EECDPASAVE GIKPRKRKTF ALPGIIKKEK
DAESVECPDA DSLNIPDVDE EGFSIKPEAN QNDTKENHFY SSSSDSEDE EPKRYRIEIK
PAHPNNLHHT MASLDELKVS IGNITLSPAV SRHSPVQMNR NSSNEELTKS KPSSLPTEKG
TNDLLAWDPL FGSSLESSSA PLTSSSSARP TTPLSLGTLV PPPRPASRPK LASGKLSGIN
EIPRPFSPPV TSNTSPPTA PLARAESSSS ISSSASLSAA NTPTVGVSRG PSPVSLGNQD
TLPVAIALTE SVNAYFKGAD PTKCIVKITG DVTISFPSGI IKVFTSNPSP AVLCFRVKNI
SRLEQILPNS QLVFSDPSQC DSNTKDFWMN MQAVTIYLLK LSEQNPAASY YNVDVLKYQV
SSNGIQSTPL NLATYWKCSA STTDLRVDYK YNPEAMVAPS VLSNIQVVVP VGGVVTNMQS

LPPAIWNAEQ MKAFWKLSGI SEKSDSGGSG SLRAKFDLSE GPSKPTTLAV QFLSEGNTLS
GVDIELVGTG YRLSLVKKRF ATGRYLADC

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Fcho2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's protParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Protein is endotoxin free.

Product Details

Grade: Crystallography grade

Target Details

Target: FCH02

Alternative Name: Fcho2 ([FCH02 Products](#))

Background: Functions in an early step of clathrin-mediated endocytosis. Has both a membrane binding/bending activity and the ability to recruit proteins essential to the formation of functional clathrin-coated pits. Has a lipid-binding activity with a preference for membranes enriched in phosphatidylserine and phosphoinositides (Pi(4,5) biphosphate) like the plasma membrane. Its membrane-bending activity might be important for the subsequent action of clathrin and adaptors in the formation of clathrin-coated vesicles. Involved in adaptor protein complex AP-2-dependent endocytosis of the transferrin receptor, it also functions in the AP-2-independent endocytosis of the LDL receptor. {ECO:0000269|PubMed:21762413, ECO:0000269|PubMed:21883765}.

Molecular Weight: 89.7 kDa Including tag.

UniProt: [Q3UQN2](#)

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: Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 100 mM NaCl, 20 mM HEPES, 10% glycerol. pH value is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Handling

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process