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Datasheet for ABIN3090475

CDH18 Protein (AA 54-608) (MBP tag)

3 Images

Overview

Quantity:	1 mg
Target:	CDH18
Protein Characteristics:	AA 54-608
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CDH18 protein is labelled with MBP tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence: GWVWNQFFVL EEHMGDPDPQY VGKLHSNSDK GDGSVKYILT GEGAGTIFII DDTTGDHST
 KSLDREQKTH YVLAQAIDR RTNKPLEPES EFIKVDIN DNAPKFTDGP YIVTPEMSD
 MGTSVLQVTA TDADPTYGN SARVVYSILQ GQPYFSVDPK TGVIRTUALHN MDREAREHYS
 VVIQAKDMAG QVGGLSGSTT VNITLTDVND NPPRFPQKHY QLYVPESAQV GSAVGKIKAN
 DADTGSNADM TYSIINGDGM GIFSISTDKE TREGILSLKK PLNYEKKKSYSY TLNIEGANTH
 LDFRFSHLGP FKDATMLKII VGDVDEPPLF SMPSYLMEVY ENAKIGTVVG TVLAQDPDST
 NSLVRYFINY NVEDDRFFNI DANTGTIRTT KVLDRRETPW YNITVTASEI DNPDLLSHVT
 VGIRVLDVND NPPELAREYD IIVCENSKPG QVIHTISATD KDDFANGPRF NFFLDERLPV
 NPNFTLKDNE DNTASILTRR RRFRTVQDV YYLPIMISDG GIPSLSSSST LTIRVCACER
 DGRVRTCHAE AFLSS

Sequence without tag.

Product Details

- Characteristics:
- Made in Germany - from design to production - by highly experienced protein experts.
 - Human CDH18 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: The protein is purified from the cleared cell lysate using MBP capture materials. Eluate fractions are analyzed by SDS-PAGE. Protein containing fractions are subjected to a 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.

Grade: Crystallography grade

Target Details

Target: CDH18

Alternative Name: CDH18 ([CDH18 Products](#))

Target Details

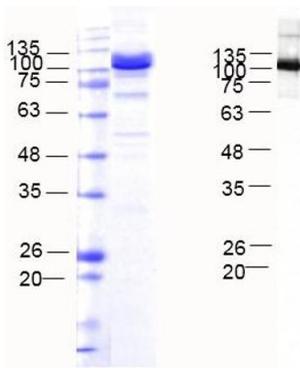
Background:	Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells, cadherins may thus contribute to the sorting of heterogeneous cell types.
Molecular Weight:	62.6 kDa Including tag.
UniProt:	Q13634
Pathways:	Cell-Cell Junction Organization

Application Details

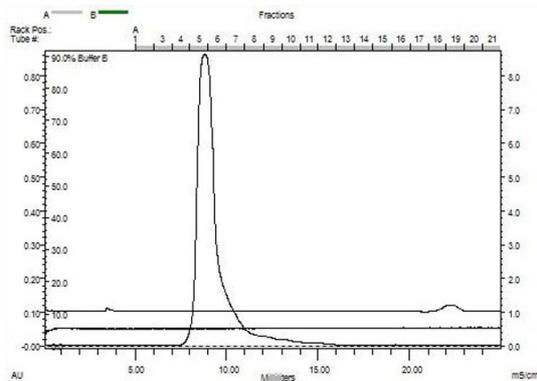
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	N-terminal MBP-Tag
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	in solution (20 mM Hepes, pH 7.4, 5 mM NaCl)
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



Cadherin 18 (CDH 18) (AA 54 - 608), Fraction 7



Cadherin 18 (CDH 18) (AA54 - 608), gel filtration Superose 6, fraction 7

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

Western Blotting

Image 2.

Image 3.