

Datasheet for ABIN3091166

## CFTR Protein (AA 1152-1480) (His tag)



[Go to Product page](#)

### 2 Images

#### Overview

Quantity:	1 mg
Target:	CFTR
Protein Characteristics:	AA 1152-1480
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CFTR protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

#### Product Details

Sequence: MDVDSLMSRV SRVFKFIDMP TEGKPTKSTK PYKNGQLSKV MIIENSHVKK DDIWPSGGQM  
TVKDLTAKYT EGGNAILENI SFSISPGQRV GLLGRTGSGK STLLSAFLRL LNTEGEIQID  
GVSWDSITLQ QWRKAFGVIP QKVFIFSGTF RKNLDPYEQW SDQEIWKVAD EVGLRSVIEQ  
FPGKLDVFLV DGGCVLSHGH KQLMCLARSV LSKAKILLLD EPSAHLDPVT YQIIRRTLKQ  
AFADCTVILC EHRIEAMLEC QQFLVIEENK VRQYDSIQKL LNERSLFRQA ISPSDRVKLF  
PHRNSSKCKS KPQIAALKEE TEEEVQDTRL HHHHHH

Characteristics: This made-to-order protein has already been successfully produced. Please let us know if you are interested in purchasing a smaller amount of this protein. We will check our stock and make you a customized quote in case we can provide this protein in a smaller amount.

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.

## Product Details

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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.

**Grade:** Crystallography grade

## Target Details

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**Target:** CFTR

**Alternative Name:** CFTR ([CFTR Products](#))

**Background:** Involved in the transport of chloride ions. May regulate bicarbonate secretion and salvage in epithelial cells by regulating the SLC4A7 transporter. Can inhibit the chloride channel activity of ANO1. Plays a role in the chloride and bicarbonate homeostasis during sperm epididymal maturation and capacitation. {ECO:0000269|PubMed:22178883}.

**Molecular Weight:** 38.4 kDa Including tag.

**UniProt:** [P13569](#)

## Application Details

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**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.

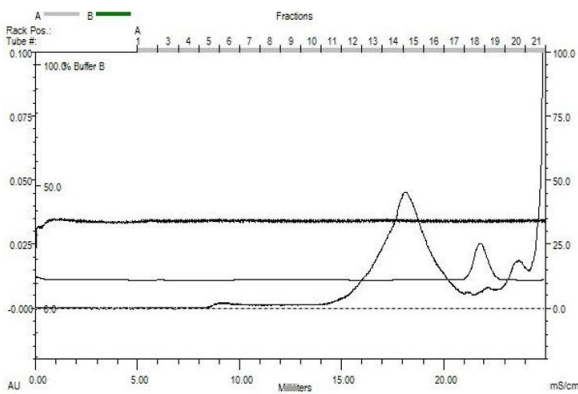
**Comment:** C-terminal His-tag

**Restrictions:** For Research Use only

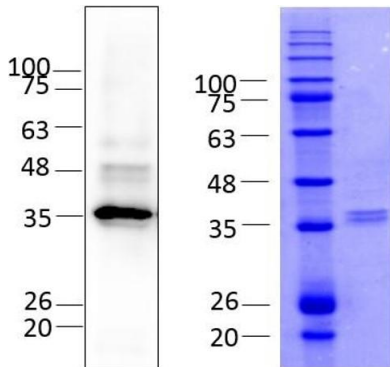
## Handling

Format:	Liquid
Buffer:	20 mM Hepes, pH7.4; 100 mM NaCl
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

## Images



Cystic fibrosis transmembrane conductance regulator (CFTR) (AA 1150 – 1480), gel filtration, Superose 6, fraction 14 - 15



Cystic fibrosis transmembrane conductance regulator (CFTR) (AA 1150 – 1480), fraction 14 - 15

### Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 1. Gel filtration

### Western Blotting

Image 2. Quality Control Images: Western Blotting + SDS-PAGE