

Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Recombinant Protein | CFTR recombinant protein

Recombinant Cystic Fibrosis Transmembrane Conductance Regulator (CFTR)

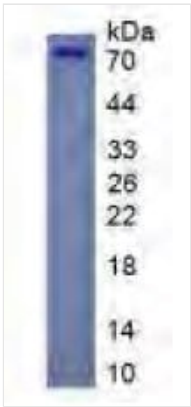
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA148313	E.coli	Homo sapiens (Human)	Western Blot, SDS-Page

PRODUCT SYNONYMS

Cystic Fibrosis Transmembrane Conductance Regulator (CFTR); Recombinant Cystic Fibrosis Transmembrane Conductance Regulator (CFTR); ABC35; ABCC7; CF; CFTR/MRP; MRP7; TNR-CFTR; ATP-Binding Cassette Subfamily C; Member 7; Channel conductance-controlling ATPase; cAMP-dependent chloride channel; CFTR recombinant protein

PRODUCT SPECIFICATIONS

Host	E.coli
Reactivity	Homo sapiens (Human)
Purity/Purification	> 97%
Form/Format	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.
Concentration	Original Concentration: 300ug/mL (varies by lot)
Applicable Applications for CFTR recombinant protein	WB (Western Blot), SDS-PAGE, Immunogen, Positive Control
Source	Prokaryotic expression
Residues	Gln359~Ser858
Tags	N-terminal His Tag
Subcellular Location	Membrane
Traits	Freeze-dried powder
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1. Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Usage	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



Sequence

QTVWDSLGATNKIQDFLQKQEVKLTLYNLTTTEVVMWTAFFEEGFGLFEKAKQNNNRKTSNGQDSLFFSNFSLGTPVILKDNF
KTERGQLLAWACSTGAGKTSLLWIMZELPPSEGAHNSGRISFCSQSWHPGTAKNLIFOVSVDEVRYSVIAKCOLLEEDISKFA
EKONIVLGGGITLGGGRARISLARAVYKADLYLLDSPFGYLDVLTKEETFESECVKLMANKTILVTSMKHKKAKILLHEG
SSVYFQTFSELQNLQPDFSSKMGDSFDFSAERRNSILTTETUHFSLGSDAPVSNITKKQSFQVQTEFGEKRNKNSILNPINSIRK
FSIVQKTPLOHNGIEEDSDEPLEERLSLVPSQEGEAILPRISVISTGPTLQARRQSVLNLNTHSVNQGGQIHKKTTASTRKVSLAP
QNLTELDIYSRRLSQETGLEESSEINEEDLKECFDQMESIPAVTTHNTYLYRYETVMS

SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for CFTR recombinant protein	Immune molecule
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NCBI AND UNIPROT INFORMATION

NCBI GI #	90421313
NCBI GeneID	1080
NCBI Accession #	NP_000483.3
NCBI GenBank Nucleotide #	NM_000492.3
UniProt Accession #	P13569; Q20BG8; Q20BH2; Q2I0A1; Q2I102
Molecular Weight	Predicted Molecular Mass: 60.3kDa Accurate Molecular Mass: 68kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	cystic fibrosis transmembrane conductance regulator
NCBI Official Synonym Full Names	cystic fibrosis transmembrane conductance regulator
NCBI Official Symbol	CFTR
NCBI Official Synonym Symbols	CF; MRP7; ABC35; ABCC7; CFTR/MRP; TNR-CFTR; dJ760C5.1
NCBI Protein Information	cystic fibrosis transmembrane conductance regulator
UniProt Protein Name	Cystic fibrosis transmembrane conductance regulator
UniProt Gene Name	CFTR
UniProt Synonym Gene Names	ABCC7; CFTR

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.