Recombinant Human CFTR Protein (Pro1181-End), N-His-tagged

Cat. No. CFTR-12H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Human cystic fibrosis transmembrane conductance regulator (ATP-binding cassette sub-family C, member 7) (CFTR), Pro1181-End, with N-terminal His tag, expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Pro1181-End
Description	This gene encodes a member of the ATP-binding cassette (ABC) transporter superfamily. The encoded protein functions as a chloride channel, making it unique among members of this protein family, and controls ion and water secretion and absorption in epithelial tissues. Channel activation is mediated by cycles of regulatory domain phosphorylation, ATP-binding by the nucleotide-binding domains, and ATP hydrolysis. Mutations in this gene cause cystic fibrosis, the most common lethal genetic disorder in populations of Northern European descent. The most frequently occurring mutation in cystic fibrosis, DeltaF508, results in impaired folding and trafficking of the encoded protein. Multiple pseudogenes have been identified in the human genome.
Molecular Mass	33.9 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	50mM Tris, 8M Urea, pH8.0.

GENE INFORMATION

Gene Name	CFTR CF transmembrane conductance regulator [Homo sapiens (human)]
Official Symbol	CFTR
Synonyms	CFTR; CF transmembrane conductance regulator; CF; MRP7; ABC35; ABCC7; CFTR/MRP; TNR-CFTR; dJ760C5.1; cystic fibrosis transmembrane conductance regulator; cAMP-dependent chloride channel; channel conductance-controlling ATPase; cystic fibrosis transmembrane conductance regulating; cystic fibrosis transmembrane conductance regulator (ATP-binding cassette sub-family C, member 7); EC 5.6.1.6
Gene ID	1080
mRNA Refseq	NM_000492
Protein Refseq	NP_000483
MIM	602421
UniProt ID	P13569

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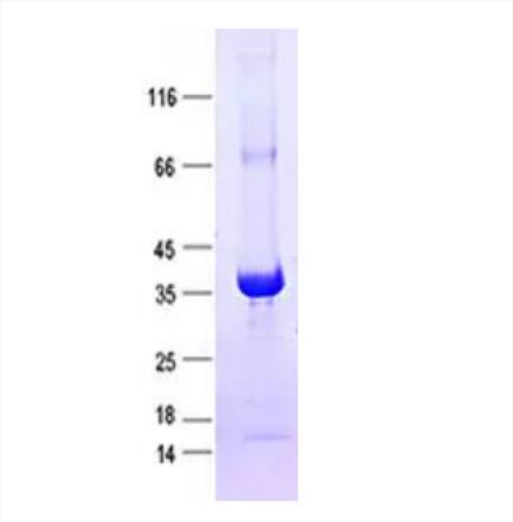
SDS-PAGE	

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