

Recombinant Human CFTR

Cat. No. CFTR-27241TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human CFTR (amino acids 1381-1480) with N terminal proprietary tag, 36.63kDa.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	This gene encodes a member of the ATP-binding cassette (ABC) transporter superfamily. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MRP subfamily that is involved in multi-drug resistance. The encoded protein functions as a chloride channel and controls the regulation of other transport pathways. Mutations in this gene are associated with the autosomal recessive disorders cystic fibrosis and congenital bilateral aplasia of the vas deferens. Alternatively spliced transcript variants have been described, many of which result from mutations in this gene.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Found on the surface of the epithelial cells that line the lungs and other organs.
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
Sequences of amino acids	YQIIRRTLKQAFADCTVILCEHRIEAMLECCQQFLVIEENKVRQYDSIQKLLNERSLFRQ AISPDRVKLFPHRNSSKCKSKPQIAALKEETEEVQDTRL
Sequence Similarities	Belongs to the ABC transporter superfamily. ABCC family. CFTR transporter (TC 3.A.1.202) subfamily. Contains 2 ABC transmembrane type-1 domains. Contains 2 ABC transporter domains.

GENE INFORMATION

Gene Name	CFTR cystic fibrosis transmembrane conductance regulator (ATP-binding cassette sub-family C, member 7) [Homo sapiens]
Official Symbol	CFTR
Synonyms	CFTR; cystic fibrosis transmembrane conductance regulator (ATP-binding cassette sub-family C, member 7); ABCC7, CF, cystic fibrosis transmembrane conductance regulator, ATP binding cassette (sub family C, member 7); cystic fibrosis transmembrane conductance
Gene ID	1080
mRNA Refseq	NM_000492
Protein Refseq	NP_000483

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MIM	602421
Uniprot ID	P13569
Chromosome Location	7q31-q32
Pathway	ABC transporters, organism-specific biosystem; ABC transporters, conserved biosystem; ABC-family proteins mediated transport, organism-specific biosystem; Bile secretion, organism-specific biosystem; Bile secretion, conserved biosystem;
Function	ATP binding; ATP-binding and phosphorylation-dependent chloride channel activity; ATPase activity; PDZ domain binding; channel-conductance-controlling ATPase activity;

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