

## Recombinant Human CFTR protein, His-tagged

**Cat. No.** CFTR-277H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human CFTR protein(NP_000483)(1210-1480 aa), fused to His-tag, was expressed in E. coli.                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 1210-1480 aa                                                                                                                                                                                                                                                                                      |
| <b>Form</b>             | The purified protein was Lyophilized from sterile PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH7.). 5 % trehalose and 5 % mannitol are added as protectants before lyophilization.                                                           |
| <b>AA Sequence</b>      | MTVKDLTAKYTEGGNAILENISFSISPGQRVGLLGRTGSGKSTLLSAFLRLLNTEGEIQ<br>IDGVSWDSITLQQWRKAFGVIPQKVIFISGTFRKNLDPYEQWSDQEIWKVADEVGLR<br>SVIEQFPGKLDFVLVDGGCVLSHGHKQLMCLARSVLSKAKILLLLDEPSAHLDPVTYQII<br>RRTLKQAFADCTVILCEHRIEAMLECCQQFLVIEENKVRQYDSIQKLLNERSLFRQAISP<br>SDRVKLFPHRNSSKCKSKPQIAALKEETEEEVQDTRL |
| <b>Purity</b>           | 85%, by SDS-PAGE with Coomassie Brilliant Blue staining.                                                                                                                                                                                                                                          |
| <b>Storage</b>          | Short-term storage: Store at 2-8°C for (1-2 weeks).<br>Long-term storage: Aliquot and store at -20°C to -80°C for up to 3 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.                                                              |

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### Reconstitution

Reconstitute at 0.25 g/μl in 200 μl sterile water for short-term storage.

Reconstitution with 200 μl 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details).

If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used).

Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.

## 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);

**Gene ID** 1080

**mRNA Refseq** NM\_000492.3

**Protein Refseq** NP\_000483

**MIM** 602421

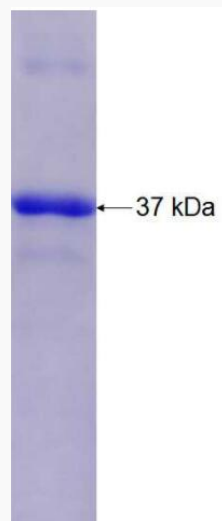
**UniProt ID** P13569

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SDS-PAGE



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