

## Recombinant Human TFRC Protein, His-tagged

**Cat. No.** TFRC-2028H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human sTfR Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Cys89-Phe760) of human sTfR (Accession #NP_001121620.1) fused with a 6×His tag at the C-terminus.                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | Cys89-Phe760                                                                                                                                                                                                                                                         |
| <b>Description</b>      | This gene encodes a cell surface receptor necessary for cellular iron uptake by the process of receptor-mediated endocytosis. This receptor is required for erythropoiesis and neurologic development. Multiple alternatively spliced variants have been identified. |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.4, 5 % trehalose, 5 % mannitol.                                                                                                                                                                                                   |
| <b>Endotoxin</b>        | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                                                                                                                                      |
| <b>Purity</b>           | > 90% as determined by SDS-PAGE                                                                                                                                                                                                                                      |
| <b>Stability</b>        | Samples are stable for up to twelve months from date of receipt at -70°C.                                                                                                                                                                                            |
| <b>Storage</b>          | Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.                                                                                                            |

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**Reconstitution**

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

**GENE INFORMATION**

|                 |                                                                                                             |
|-----------------|-------------------------------------------------------------------------------------------------------------|
| Gene Name       | TFRC transferrin receptor (p90, CD71) [ Homo sapiens ]                                                      |
| Official Symbol | TFRC                                                                                                        |
| Synonyms        | TFRC; transferrin receptor (p90, CD71); transferrin receptor protein 1; CD71; TFR1; T9; TR; TFR; p90; TRFR; |
| Gene ID         | 7037                                                                                                        |
| mRNA Refseq     | NM_001128148                                                                                                |
| Protein Refseq  | NP_001121620                                                                                                |
| MIM             | 190010                                                                                                      |
| UniProt ID      | P02786                                                                                                      |

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