

## Active Recombinant Human TFRC Protein, His-tagged, Biotinylated

**Cat. No.** TFRC-3865H    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                               |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Biotinylated Human Transferrin R / CD71 is expressed from HEK293 cells. It contains AA Cys 89 - Phe 760 (Accession # AAH01188.1). This protein carries a polyhistidine tag at the N-terminus. |
| <b>Species</b>              | Human                                                                                                                                                                                         |
| <b>Source</b>               | HEK293                                                                                                                                                                                        |
| <b>ProteinLength</b>        | 89-760 a.a.                                                                                                                                                                                   |
| <b>Predicted N Terminal</b> | His                                                                                                                                                                                           |
| <b>Form</b>                 | Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.                                                                                                                      |
| <b>Bio-activity</b>         | Immobilized Human Transferrin, His Tag at 2 ug/mL (100 uL/well) can bind Biotinylated Human Transferrin R, His Tag with a linear range of 5-156 ug/mL.                                        |
| <b>Molecular Mass</b>       | The protein has a calculated MW of 76 kDa. The protein migrates as 80-85 kDa on a SDS-PAGE gel under reducing condition due to glycosylation.                                                 |
| <b>Endotoxin</b>            | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                                                               |
| <b>Purity</b>               | >92% as determined by SDS-PAGE.                                                                                                                                                               |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                       |                                                                                                                                                                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Characteristic</b> | The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with biotins using standard chemical labeling method. A standard biotin reagent (13.5 angstroms) is used in this product. The biotin to protein ratio is 1-2 as determined by the HABA assay. |
| <b>Stability</b>      | Samples are stable for up to twelve months from date of receipt at -70°C.                                                                                                                                                                                                                               |
| <b>Storage</b>        | For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. No activity loss is observed after storage at: 4-8°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.        |
| <b>Reconstitution</b> | 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.                                                                                                                           |
| <b>Conjugation</b>    | Biotin                                                                                                                                                                                                                                                                                                  |

## GENE INFORMATION

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|     |        |
|-----|--------|
| MIM | 190010 |
|-----|--------|

|            |        |
|------------|--------|
| UniProt ID | P02786 |
|------------|--------|

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA