

Active Recombinant Human TFR2 Protein, Fc-tagged

Cat. No. TFR2-317H Lot. No. (See product label)

SPECIFICATION

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|----------------------------|---|
| Product Overview | Recombinant Human TFR2 Protein (Gly112-Phe801) with Human IgG1 (Pro100-Lys330) Fc tag at N-terminus was expressed in Chinese Hamster Ovary cell line. |
| Species | Human |
| Source | CHO |
| ProteinLength | 112-801 a.a. |
| Description | This gene encodes a single-pass type II membrane protein, which is a member of the transferrin receptor-like family. This protein mediates cellular uptake of transferrin-bound iron, and may be involved in iron metabolism, hepatocyte function and erythrocyte differentiation. Mutations in this gene have been associated with hereditary hemochromatosis type III. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. |
| Form | Disulfide-linked homodimer |
| Bio-activity | Measured by its binding ability in a functional ELISA. In a Goat Anti-Human IgG Fc Antibody coated plate, Recombinant Human Tfr2 Fc Chimera binds to Biotinylated Human Transferrin with an ED50 of 0.1-0.6 µg/mL. |
| Molecular Mass | 103 kDa |
| N-terminal Sequence | Met |

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|-----------------------|--|
| Analysis | |
| Endotoxin | < 0.1 EU/μg of the protein by the LAL method. |
| Purity | > 90%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining. |
| Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution. |
| Storage Buffer | Lyophilized from a 0.2 μm filtered solution in PBS. |
| Reconstitution | Reconstitute at 500 μg/mL in PBS. |
| Shipping | The product is shipped at ambient temperature. |

GENE INFORMATION

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|------------------------|--|
| Gene Name | TFR2 transferrin receptor 2 [Homo sapiens (human)] |
| Official Symbol | TFR2 |
| Synonyms | TFR2; transferrin receptor 2; transferrin receptor protein 2 |
| Gene ID | 7036 |
| mRNA Refseq | NM_003227 |
| Protein Refseq | NP_003218 |

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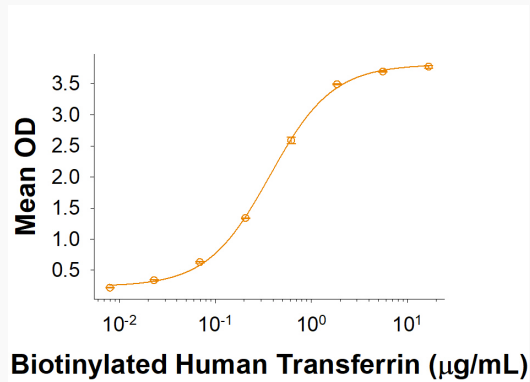
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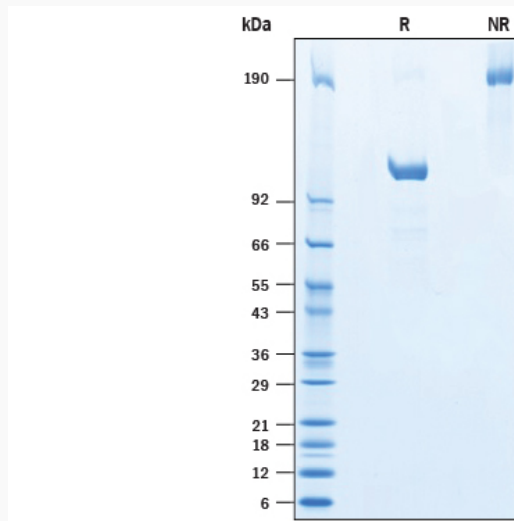
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Binding Activity



In a Goat Anti-Human IgG Fc Antibody coated plate, Recombinant Human TfR2 Fc Chimera binds to Biotinylated Human Transferrin with an ED50 of 0.1-0.6 µg/mL.

SDS-PAGE



2 µg/lane of Recombinant Human TfR2 Fc Chimera Protein was resolved with SDS-

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PAGE under reducing (R) and non-reducing (NR) conditions and visualized by Coomassie® Blue staining, showing bands at 105-117 kDa and 180-210 kDa, respectively.

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