

Active Recombinant Human TFR2 Protein, Fc-tagged

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

SPECIFICATION

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

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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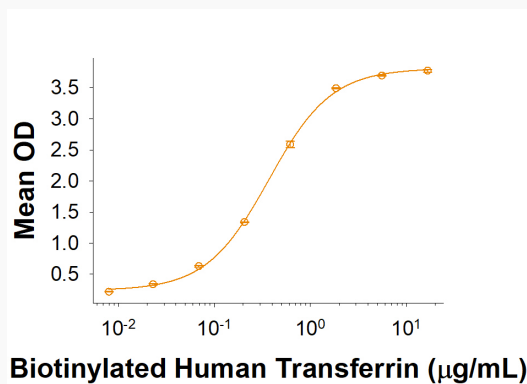
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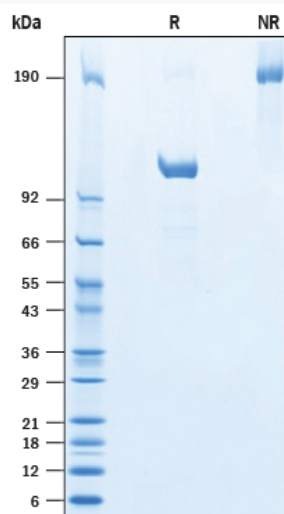
UniProt ID Q9UP52

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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