

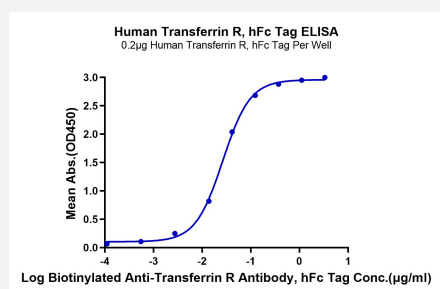
Bioactive

HuPro®

TFRC (Human) Recombinant Protein

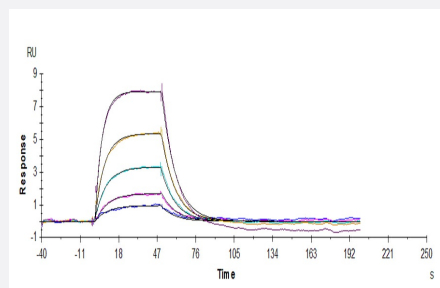
Catalog # P9892 Size 100 ug

Applications



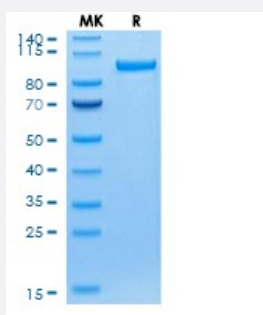
Enzyme-linked Immunoabsorbent Assay

Immobilized Human Transferrin R, hFc Tag at 2 ug/mL (100 uL/well) on the plate. Dose response curve for Biotinylated Anti-Transferrin R Antibody, hFc Tag with the EC50 of 26.5 ng/mL determined by ELISA (QC Test).



Surface Plasmon Resonance

Human Transferrin R, hFc Tag captured on CM5 Chip via Anti-Fc Antibody can bind Human Transferrin, His Tag with an affinity constant of 0.1 uM as determined in SPR assay (Biacore T200).



Tris-Bis PAGE

Human Transferrin R on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description

Human TFRC (P02786-1, Cys89-Phe760) partial recombinant protein with hFc tag at C-Terminus expressed in HEK293 cells.

Sequence	Cys89-Phe760
Host	Human
Theoretical MW (kDa)	101.8
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC ₅₀ was 26.5 ng/mL, measured by ELISA at 2 ug/mL. The affinity constant of 0.1 uM as determined in SPR assay (Biacore T200).
Quality Control Testing	Tris-Bis PAGE Tris-Bis PAGE Human Transferrin R on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity SDS-PAGE SPR The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Enzyme-linked Immunoabsorbent Assay

Immobilized Human Transferrin R, hFc Tag at 2 ug/mL (100 uL/well) on the plate. Dose response curve for Biotinylated Anti-Transferrin R Antibody, hFc Tag with the EC₅₀ of 26.5 ng/mL determined by ELISA (QC Test).

- Functional Study

- SDS-PAGE

- Surface Plasmon Resonance

Human Transferrin R, hFc Tag captured on CM5 Chip via Anti-Fc Antibody can bind Human Transferrin, His Tag with an affinity constant of 0.1 uM as determined in SPR assay (Biacore T200).

Gene Info — TFRC

Entrez GeneID	7037
Protein Accession#	P02786-1
Gene Name	TFRC
Gene Alias	CD71, TFR, TFR1, TRFR
Gene Description	transferrin receptor (p90, CD71)
Omim ID	190010
Gene Ontology	Hyperlink
Gene Summary	O
Other Designations	transferrin receptor

Pathway

- [Endocytosis](#)
- [Hematopoietic cell lineage](#)

Disease

- [Abortion](#)
- [Adenomatous Polyps](#)
- [Birth Weight](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)

- [Disease Progression](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Glomerulonephritis](#)
- [Hemochromatosis](#)
- [Hepatitis C](#)
- [Hereditary hemochromatosis](#)
- [Hyperparathyroidism](#)
- [Insulin Resistance](#)
- [Iron Overload](#)
- [Leukemia](#)
- [Liver Cirrhosis](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Myeloproliferative Disorders](#)
- [Ovarian cancer](#)
- [Porphyria](#)
- [Porphyria Cutanea Tarda](#)
- [Pregnancy Complications](#)
- [Pulmonary Disease](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)