

Human Transferrin R Protein; His Tag

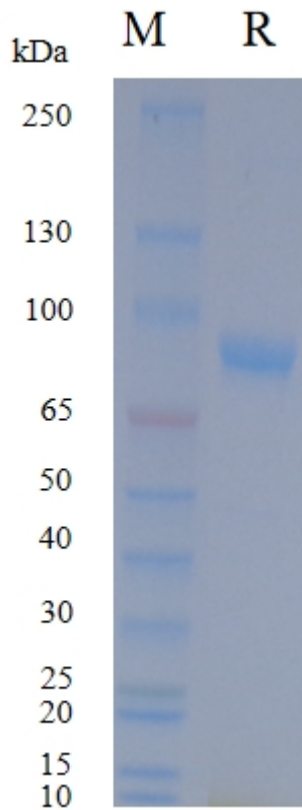
Product Information

Product Name	Human Transferrin R Protein; His Tag
Storage temp	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-88644RP-100 / 100 μg GM-88644RP-1000 / 1 mg

Protein Information

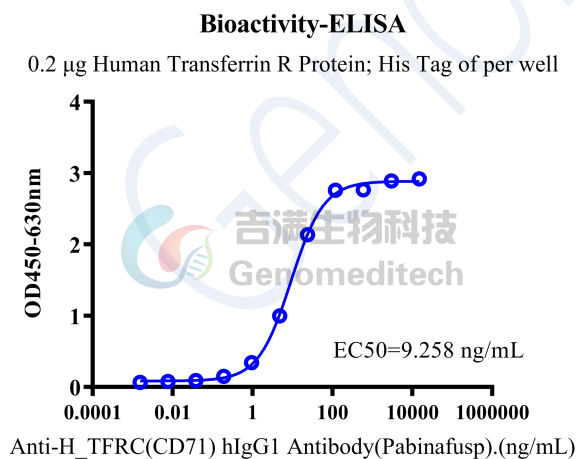
Alternative Names	CD71, TFRC, TFR, sTfR, TfR1, Trfr, T9, p90
Source	Human Transferrin R Protein; His Tag (GM-88644RP) is expressed from human 293 cells (HEK-293). It contains AA Cys 89 - Phe 760 (Accession # P02786-1). This protein carries a his tag at the N-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	76.0 KDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	Transferrin R protein, also known as Transferrin Receptor 1, is a type II transmembrane glycoprotein that mediates cellular iron uptake by binding diferric transferrin and internalizing the complex via clathrin - dependent endocytosis. It is highly expressed on rapidly proliferating cells, including activated lymphocytes, hematopoietic precursors, and many tumor cells, making it a useful marker of cell proliferation and iron demand. The soluble form of transferrin receptor (sTfR) can be detected in serum and is widely used as a biomarker of iron status and erythropoietic activity. Recombinant Transferrin R protein is commonly used in studies of iron metabolism, receptor - ligand interactions, and cancer biology. Synonyms: CD71, TFRC, TFR, sTfR, TfR1, Trfr, T9, p90.

SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Human Transferrin R Protein; His Tag (Catalog # GM-88644RP) was immobilized at 2 $\mu\text{g}/\text{ml}$ (100 $\mu\text{L}/\text{well}$). Increasing concentrations of Anti-H_TFRC(CD71) hIgG1 Antibody (Pabinafusp) (Catalog #GM-30129AB) were added.