Human Transferrin R2 alpha Protein, Fc Tag

Catalog # TRA-H5263

Synonym

TfR2

Source

Human Transferrin R2 alpha, Fc Tag(TRA-H5263) is expressed from human 293 cells (HEK293). It contains AA Gly 112 - Phe 801 (Accession # Q9UP52-1). Predicted N-terminus: Pro

Molecular Characterization

Fc(Pro 100 - Lys 330) P01857	TfR2(Gly 112 - Phe 801) Q9UP52-1

This protein carries a human IgG1 Fc tag at the N-terminus.

The protein has a calculated MW of 102.8 kDa. The protein migrates as 105-120 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, 0.2 M Arginine, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

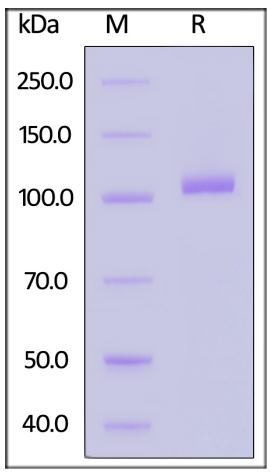
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

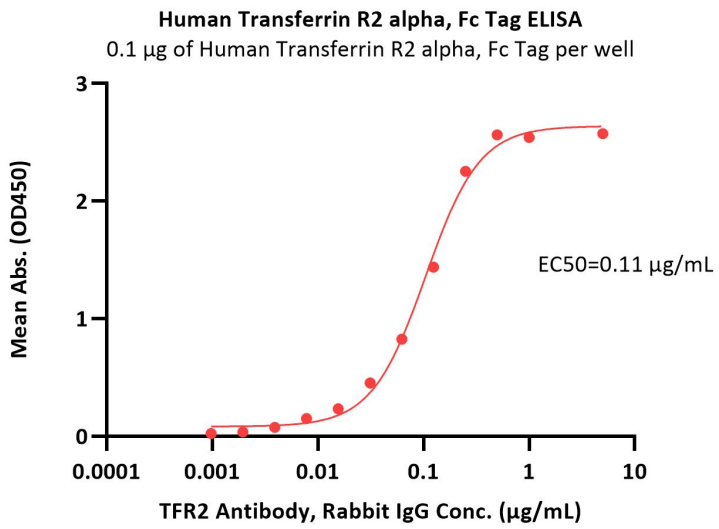
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human Transferrin R2 alpha, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Immobilized Human Transferrin R2 alpha, Fc Tag (Cat. No. TRA-H5263) at 1 μg/mL (100 μL/well) can bind TFR2 Antibody, Rabbit IgG with a linear range of 0.001-0.25 μg/mL (QC tested).

Background

CD antigen CD71 is also known as Transferrin receptor protein 1, TfR, sTfR, p90, TfR1, Trfr, which belongs to the peptidase M28 family and M28B subfamily. CD71 /TFR contains one PA (protease associated) domain. CD71 / TfR1 is required for iron delivery from transferrin to cells. CD71 is a potential new target in cases of human leukomia & lymphoma. CD71 /TFRC / TfR has been shown to interact with GABARAP and HFE.