

Synonym

Transferrin R2,TFR2

Source

Mouse TFR2, Mouse Fc Tag(TF2-M5269) is expressed from human 293 cells (HEK293). It contains AA Arg 103 - Phe 798 (Accession # [Q9JKX3-1](#)).

Predicted N-terminus: Val

Molecular Characterization

mFc(Val 98 - Lys 324) AAK53870.1	TFR2(Arg 103 - Phe 798) Q9JKX3-1
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This protein carries a mouse IgG1 Fc tag at the N-terminus.

The protein has a calculated MW of 101.1 kDa. The protein migrates as 116 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.1 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 Tris with Glycine, Arginine and NaCl, pH7.5 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

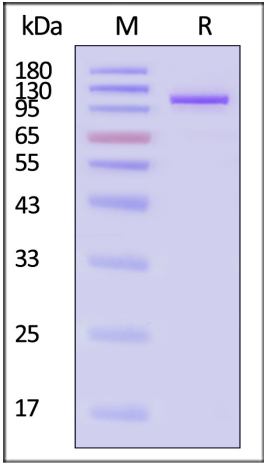
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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



Mouse TFR2, Mouse 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% (With [Star Ribbon Pre-stained Protein Marker](#)).

Background

Transferrin receptor protein 2 (TFR2) is a single-pass type II membrane protein with a protease associated (PA) domain, an M28 peptidase domain and a transferrin receptor-like dimerization domain. The mutations in TFR2 gene have been associated with hereditary hemochromatosis type III. Furthermore, TFR2 is involved in the uptake of transferrin-bound iron into cells by endocytosis, although its role is minor compared to transferrin receptor 1.

