

Active Recombinant Pig TF protein(Met1-Thr715), hFc-tagged

Cat. No. TF-568P Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant pig transferrin (NP_001231582.1) (Met 1-Thr 715) was expressed in HEK293, fused with the Human IgG1 Fc region at the C-terminus.
Species	Pig
Source	HEK293
ProteinLength	Met1-Thr715
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	1. Measured by its ability to bind human His-TFRC functional ELISA. 2. Measured in a serum-free cell proliferation assay using MCF-7 human breast cancer cells. Karey, K.P. et al. (1988) Cancer Research 48:4083. The ED50 for this effect is typically 0.01-0.04 µg/mL.
Molecular Mass	The secreted recombinant pig (<i>Sus scrofa</i>) transferrin/Fc is a disulfide-linked homodimeric protein. The reduced monomer comprises 935 amino acids and has a predicted molecular mass of 103 kDa. It migrates as an approximately 100-110 kDa band in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 88 % as determined by SDS-PAGE

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Storage Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name TF transferrin [*Sus scrofa*]

Official Symbol TF

Synonyms TF; transferrin; serotransferrin; siderophilin; beta-1 metal-binding globulin;

Gene ID 396996

mRNA Refseq NM_001244653

Protein Refseq NP_001231582

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