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# **Transferrin Protein (TF) (Fc Tag)**





#### Overview

Quantity:	100 μg
Target:	Transferrin (TF)
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Transferrin protein is labelled with Fc Tag.

#### **Product Details**

Purpose:	Recombinant Mouse Transferrin Protein (Fc Tag)(Active)
Sequence:	Met1-His697
Characteristics:	A DNA sequence encoding the mouse TRF (Q921I1) (Met1-His697) was expressed with the Fc region of human IgG1 at the C-terminus.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	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 5-40 ng/mL.

#### **Target Details**

Target: Transferrin (TF)
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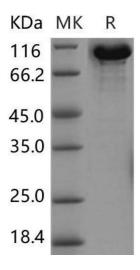
## **Target Details**

Alternative Name:	Transferrin (TF Products)
Background:	Background: Transferrin is a glycoprotein with an approximate molecular weight of 76.5 kDa.
	This glycoprotein is thought to have been created as a result of an ancient gene duplication
	event that led to generation of homologous C and N-terminal domains each of which binds one
	ion of ferric iron. The function of Transferrin is to transport iron from the intestine,
	reticuloendothelial system, and liver parenchymal cells to all proliferating cells in the body. This
	protein may also have a physiologic role as granulocyte / pollen-binding protein (GPBP)
	involved in the removal of certain organic matter and allergens from serum. Transferrins are
	iron binding transport proteins which bind Fe3+ ion in association with the binding of an anion,
	usually bicarbonate. This transferrin binds only one Fe3+ ion per protein molecule. Transports
	iron ions from the hemolymph into the eggs during the vitellogenic stage. Transferrins are iron
	binding transport proteins which can bind two Fe(3+) ions in association with the binding of an
	anion, usually bicarbonate. It is responsible for the transport of iron from sites of absorption
	and heme degradation to those of storage and utilization. Serum transferrin may also have a
	further role in stimulating cell proliferation. When a transferrin loaded with iron encounters with
	a transferring receptor on cell surface, transferring binds to it and, as a consequence, is
	transported into the cell in a visicle by receptor-mediated endocytosis. The PH is reduced by
	hydrogen iron pumps. The lower pH causes transferrin to release its iron ions. The receptor is
	then transported through the endocytic cycle back to the cell surface, ready for another round
	of iron uptake. Each transferrin molecule has the ability to carry two iron ions in the ferric form
	Synonym: Transferrin
Molecular Weight:	101.9 kDa
UniProt:	Q921I1
Pathways:	Transition Metal Ion Homeostasis
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.

#### Handling

Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted
	samples are stable at < -20°C for 3 months.

#### **Images**



## **Western Blotting**

Image 1.