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Datasheet for ABIN7505750

**Transferrin Protein (TF) (AA 1-697) (His tag)**

## Overview

Quantity:	100 µg
Target:	Transferrin (TF)
Protein Characteristics:	AA 1-697
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Transferrin protein is labelled with His tag.

## Product Details

Sequence:	Met1-His697
Characteristics:	A DNA sequence encoding the Mouse TF protein (Q92111) (Met1-His697) was expressed with a C-His.
Purity:	> 95 % as determined by reducing SDS-PAGE.

## Target Details

Target:	Transferrin (TF)
Alternative Name:	Transferrin ( <a href="#">TF Products</a> )
Background:	Abbreviation: Transferrin,TF Target Synonym: Serotransferrin,Transferrin,Beta-1 metal-binding globulin,Siderophilin,Trf 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

## Target Details

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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 Fe<sup>3+</sup> ion 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 transferrin receptor on cell surface, transferrin binds to it and, as a consequence, is transported into the cell in a vesicle by receptor-mediated endocytosis. The pH is reduced by hydrogen ion 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.

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Molecular Weight:	Calculated MW: 76.56 kDa Observed MW: 70 kDa
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UniProt:	<a href="#">Q92111</a>
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Pathways:	<a href="#">Transition Metal Ion Homeostasis</a>
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## Application Details

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Restrictions:	For Research Use only
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## Handling

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Format:	Lyophilized
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Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
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Storage:	4 °C,-20 °C,-80 °C
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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.
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Expiry Date:	12 months
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