

Bioactive

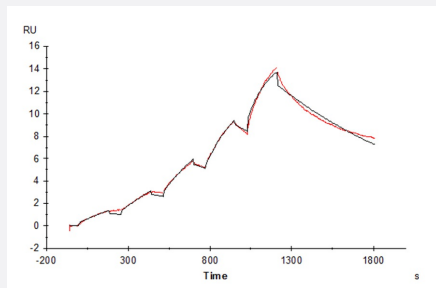
HuPro®

TF (Human) Recombinant Protein

Catalog # P9809

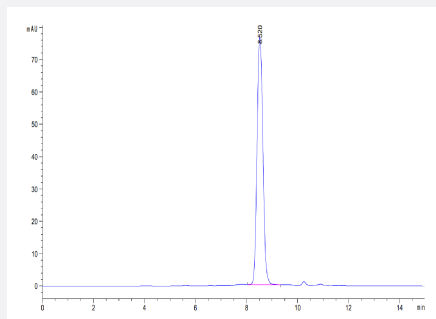
Size 100 ug

Applications



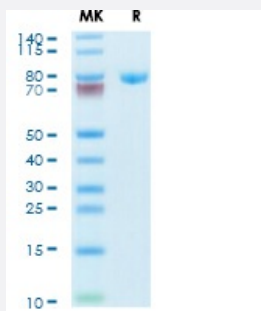
Surface Plasmon Resonance

Human Transferrin, His Tag immobilized on CM5 Chip can bind Human Transferrin R, His Tag with an affinity constant of 27.50 nM as determined in SPR assay (Biacore T200).



SEC-HPLC

The purity of Human Transferrin is greater than 95% as determined by SEC-HPLC.



Tris-Bis PAGE

Human Transferrin on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description

Human TF (AAH59367, Val20-Pro698) partial recombinant protein with His tag at C-terminus expressed in HEK293 cells.

Sequence	Val20-Pro698
Host	Human
Theoretical MW (kDa)	76.3
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The affinity constant of 27.50 nM as determined in SPR assay (Biacore T200).
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human Transferrin is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human Transferrin on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity SDS-PAGE SPR The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -81°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Functional Study
- SDS-PAGE
- Surface Plasmon Resonance

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Gene Info — TF

Entrez GeneID	7018
Protein Accession#	AAH59367
Gene Name	TF
Gene Alias	DKFZp781D0156, PRO1557, PRO2086
Gene Description	transferrin
Omim ID	190000 209300
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a glycoprotein with an approximate molecular weight of 76.5 kDa. It 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 this protein 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. [provided by RefSeq]
Other Designations	-

Disease

- [Abortion](#)
- [Alzheimer disease](#)
- [Anemia](#)
- [Anoxia](#)
- [Arthritis](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Birth Weight](#)
- [Brain Ischemia](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Cognition](#)

- [Cognition Disorders](#)
- [Colitis](#)
- [Crohn Disease](#)
- [Cystic fibrosis](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Femur Head Necrosis](#)
- [Genetic Predisposition to Disease](#)
- [Hemochromatosis](#)
- [Iron Metabolism Disorders](#)
- [Iron Overload](#)
- [Ischemia](#)
- [Liver Cirrhosis](#)
- [Macular Degeneration](#)
- [Metabolic Syndrome X](#)
- [Myocardial Infarction](#)
- [Neoplasms](#)
- [Neurodegenerative Diseases](#)
- [Osteonecrosis](#)
- [Osteoporosis](#)
- [Psychiatric Status Rating Scales](#)
- [Recurrence](#)
- [Schizophrenia](#)
- [Stroke](#)

- [Tobacco Use Disorder](#)
- [Tuberculosis](#)