

Transferrin / CD176 / Serotransferrin Active Protein | CD176 active protein

Recombinant Mouse Transferrin / CD176 / Serotransferrin Protein (Fc tag)

CATALOG #
AAA173584

HOST
HEK293 Cells

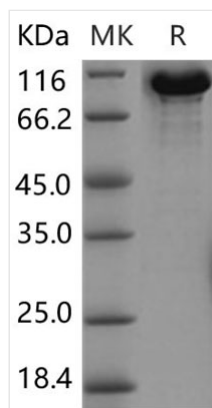
PRODUCT SYNONYMS

Transferrin / CD176 / Serotransferrin; Recombinant Mouse Transferrin / CD176 / Serotransferrin Protein (Fc tag); TRF; Tf; CD176 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>90 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH 7.4, 5% trehalose, 5% mannitol, 0.01% tween-80.
Sequence	Met1-His69 7
Species	Mouse
Tag	C-Fc
Bio Activity	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.
Endotoxin	< 1.0 EU per ug of the protein as determined by the LAL method.
Reconstitution	We recommend that the vial be centrifuged to opening to bring the contents to the bottom. Do not mix by vortex. It is recommended that sterile water (400ul) be added to the vial to prepare a stock solution of 0.25mg/mL. Concentration is measured by UV-Vis.
Preparation and Storage	Storage: Lyophilized proteins are stable for up to 12 months when stored at -20°C 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. Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for CD176 active protein	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. Description: A DNA sequence encoding the mouse TRF (Q92111) (Met1-His697) was expressed with the Fc region of human IgG1 at the C-terminus.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	20330802
NCBI GeneID	22041
NCBI Accession #	NP_598738.1
NCBI GenBank Nucleotide #	NM_133977.2
UniProt Accession #	Q92111; O35421; Q3UBW7; Q58E69; Q61803; Q62357; Q62358; Q62359; Q63915; Q64515; Q8VII5; Q922C0
Molecular Weight	Mol Mass: 101.9 kDa AP Mol Mass: 102 kD
NCBI Official Full Name	serotransferrin
NCBI Official Synonym Full Names	transferrin
NCBI Official Symbol	Trf
NCBI Official Synonym Symbols	HP; Tf; Tfn; hpx; Cd176; AI266983
NCBI Protein Information	serotransferrin
UniProt Protein Name	Serotransferrin
UniProt Gene Name	Tf
UniProt Synonym Gene Names	Trf; Transferrin

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-active-protein/transferrin-cd176-serotransferrin/173584>