

32-3984: Holo Transferrin Native Protein

Alternative Name Serotransferrin, Transferrin, Siderophilin, Beta-1-metal-binding
: globulin, TF, PRO1557, PRO2086, DKFZp781D0156, Holo Transferrin, HTF.

Description

Source : Human serum. Human Holo Transferrin is a glycoprotein of approximately 77 kDa containing 679 amino acids. Transferrin is the iron-transport protein of vertebrate serum and donates iron to cells through interaction with a specific membrane receptor, CD71. Transferrin appears to be indispensable for most cells growing in tissue culture. It is referred to frequently as a growth factor because, in analogy to other growth factor-receptor interactions, proliferating cells express high numbers of transferrin receptors, and the binding of transferrin to their receptors is needed for cells to initiate and maintain their DNA synthesis. Apart from its role as an iron transport protein transferrin acts as a cytokine and has functions that may not be related to its iron-carrying capacity. Human Transferrin is a crucial component for the cultivation of mammalian cells in-vitro. Human Transferrin is Critical for long-term cells growth in-vitro. Human Transferrin is used as detoxificant in media by binding contaminating metal ions. Human Transferrin is often used as a nutrient in fermentation media for recombinant protein and biopharmaceutical production. Additional common uses of Human Transferrin are Molecular weight, Affinity purification of anti-human transferrin antibodies and also as receptor mediated transfection of molecules such as DNA, into cells.

Product Info

Amount :	1 gram
Purification :	Greater than 98.0% as determined by coomassie blue stained SDS-PAGE and Cellulose Acetate electrophoresis.
Content :	The protein (1mg/ml) was lyophilized with no additives.
Storage condition :	Holo Transferrin although stable at room temperature for 3 weeks, should be stored at 4°C.

Application Note

It is recommended to reconstitute the lyophilized Holo Transferrin in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

