



Product Datasheet

Product Name	Apo Transferrin Human
Cata No	CB500946
Source	
Synonyms	Serotransferrin, Transferrin, Siderophilin, Beta-1-metal-binding globulin, TF, PRO1557, PRO2086, DKFZp781D0156, Apo Transferrin, ATF

Description

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 Apo Transferrin is a glycoprotein of approximately 77 kDa.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Purity

Greater than 98.0% as determined by Cellulose Acetate Electrophoresis.

Formulation

The protein (1mg/ml) was lyophilized from approximately 0.02M NH_4HCO_3 . May contain traces of buffer salts.

Reconstitution

It is recommended to reconstitute the lyophilized

Apo Transferrin in sterile 18M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized Apo Transferrin although stable at room temperature for 3 weeks, should be stored desiccated below -18 $^{\circ}$ C. Upon reconstitution Apo Transferrin should be stored at 4 $^{\circ}$ C between 2-7 days and for future use below -18 $^{\circ}$ C.

Please prevent freeze-thaw cycles.

Applications

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.

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California Bioscience

83103 Avenue 48, Ste.1B #204
Coachella, CA 92236 USA
Phone : +1.6268339877
Email : info@cali-bio.com

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