9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

ATF Human

Apo Transferrin Human
NTP0008

Product Overview

Name	ATF Human

Description

Apo Transferrin Human

Accession (Primary)	P02787

Synonyms

Serotransferrin, Transferrin, Siderophilin, Beta-1-metal-binding globulin, TF, PRO1557, PRO2086, DKFZp781D0156, Apo Transferrin, ATF.

Introduction

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 areMolecular weight, Affinity purification of anti-human transferrin antibodies and also as receptor mediated transfection of molecules such as DNA, into cells.

Source

Human serum.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

The protein was lyophilized from 20mM NH 4 HC0 3 solution. May contain traces of buffer salts.

Stability

Store the lyophilized Apo Transferrin between 2-8°C, do not freeze. Upon reconstitution Apo Transferrin should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

Purity

Greater than 98.0% as determined by coomassie blue stained SDS-PAGE and Cellulose Acetate electrophoresis.

Solubility

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

Human Virus Test

Plasma from each donor has been tested and found negative for antibody to HIV-1, HIV-2, HCV, HBSAG and Syphilis.

References

Title: Src-Mediated Phosphorylation of Dynamin and Cortactin Regulates the “Constitutive” Endocytosis of Transferrin Publication: Molecular and cellular biology 30.3 (2010): 781-792. Link: ATF prospec publication

Iron Content