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Transferrin Human

Transferrin Human Recombinant
NTP0063

Product Overview

Name	Transferrin Human

Description

Transferrin Human Recombinant

Accession (Primary)	P02787

Synonyms

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

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.

Source

Oryza sativa (rice).

Physical Appearance

Sterile Filtered lyophilized (freeze-dried) powder.

Formulation

The protein (1mg/ml) was lyophilized with no additives.

Stability

Lyophilized Transferrin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Transferrin Human Recombinant should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Purity as determined by SDS-PAGE is 97%.

Biological Activity

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One mg of Recombinant Human Transferrin will bind to approximately 2 micrograms of Fe.

Solubility

Stock solutions can be prepared by dissolving gently into PBS for several minutes. Recommended stock concentrations are 5mg/ml to 20 mg/ml in PBS, though others can be used as well. Please try to avoid the formation of bubbles when dissolving the protein. Sterile filter through 0.2 µm filter.

Iron Content

The average amount of Ferric Iron in our Transferrin is 0.4-0.5ug per mg of protein (protein concentration is measured by absorption at 280 nm).

Precautions

Transferrin Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P02787)