NEUROMICS

Recombinant Human Transferrin Protein Datasheet

Catalog Number: PR27219 **Product Type:** Recombinant Protein

Source: *Oryza sativa* (rice)

Description/Molecular Mass: 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.

Recombinant Human Transferrin produced in Plant is a non-glycosylated, polypeptide chain containing 679 amino acids and having a molecular mass of 76 kDa.

The Recombinant Human Transferrin is purified by proprietary chromatographic techniques.

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

Purity: Greater than 97.0% as determined by SDS-PAGE.

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 0.2µm filter.

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

Storage: Although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution protein should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

FOR RESEARCH USE ONLY

Neuromics • 5325 West 74th Street, Suite 8 • Edina, MN 55439
phone 866-350-1500 • fax 612-677-3976 • e-mail pshuster@neuromics.com