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Human Holo Transferrin

CLPRO315
CLPRO315-2

Lot:

Description: Iron saturated 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. Transferrin has been identified also as one of the factors promoting the clonal growth of murine granulocyte and macrophage precursors cultured in vitro under serum-free conditions.

Presentation: 500 mg (CLPRO315) or 1 g (CLPRO315-2), sterile filtered solution was lyophilized with no additives.

Source: Human. FDA approved Plasma from each donor has been tested and found negative for antibody to HIV-1, HIV-2, HCV, HBSAG, HBc, ALT and Syphilis. Viral inactivation by pasteurization (60°C for 10 hours) has been validated using three different test viruses, with removal of 8-14.5 logs of virus documented. The purification process has also been found to remove significant additional quantities of virus.

Purity: Greater than 97.0% as determined by Cellulose Acetate. Transferrin (1 mg/ml) purified by proprietary chromatographic techniques.

For more information or to place an order please contact...

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

Stability: Lyophilized Transferrin (although stable at room temperature for 3 weeks) should be stored desiccated below -18°C. Upon reconstitution, product should be stored at 4°C for up to 7 days, or below -18°C for long term storage. **Avoid freeze-thaw cycles.**

References:

1. Exp. Parasitol. 2005. Mar; **109**(3): 188-94.
2. Clin. Chim. Acta. 2005. Mar; **353**(1-2): 205-8.
3. Insect. Biochem. Mol. Biol. 2005. Feb; **35**(2): 117-28.
4. Infect. Immun. 2005. Feb; **73**(2): 944-52.
5. Insect. Mol. Biol. 2005. Jan; **14**(1): 79-88.
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