Human Holo Transferrin (HTF), manufacturing grade

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

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order#	Lot#	Expiry Date
100 mg	1986.959.166		
1 g	1986.959.188		
5 g	1986.959.588		
20 g	1986.959.128		
1 kg	1986.959.107		

Please enquire for bulk quantities and other vial sizes.

Description

Human Holo Transferrin is a 77 kDa glycoprotein 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.

- **Source** Human Serum
- **Purity** ≥ 98 % (SDS-PAGE)
- **Endotoxin Level** ≤ 1 EU/mg
- **Iron Content** ≥ 1200 µgFe/gHTF
- **Buffer** None*
- **Physical State** Sterile filtered, pink lyophilized powder
- **Heat Treatment** 60°C for at least 10h
- **Bioburden** ≤ 10CFU/mg
- **Mycoplasma** None detected

Human Virus Test

FDA approved Plasma from each donor has been tested and found negative for antibodies to HIV-1, HIV-2, HCV, HBsAg, HBc, negative for Parvovirus B19 and Syphilis.

Reconstitution

We recommend a quick spin followed by reconstitution in sterile water to a concentration of at least 1 mg/ml. This solution can then be diluted into other aqueous buffers.

Stability

Lyophilized human Holo Transferrin although stable at room temperature for 3 weeks, should be stored desiccated below -20°C. Reconstituted human HTF should be stored at 4°C between 2-7 days and in working aliquots below -18°C for future use. Please avoid repeated freeze-thaw cycles.

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

ORDERING
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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.

Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

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