

HUMAN TRANSFERRIN (HOLO) – PURE, CELL CULTURE GRADE

Abbreviations	Tf
Product Code	T101-5
Source	Normal human serum/plasma from US sourced screened blood donations from licensed donor collection sites. Tested to be Mycoplasma free.
Uses	Designed for use as a supplemental reagent in cell culture including tissue culture, stem cell culture and serum free media. Not for direct in vivo use.

protein for iron deliver Fe ³⁺ molecules throug can be adjusted to give 1200-1700 ug/gm or d (T100-5) iron < 50 ug/gr for cell growth in tissu supports and in some	major iron binding glycoprotein and serves as the transport y in the body. Each molecule of transferrin specifically binds two h a bicarbonate mediated site specific binding. The iron content e near 100% saturation to yield holo-transferrin (T101-5) iron epleted to give near zero iron bound to yield apo-transferrin m protein. Transferrin is a natural and essential component e culture and is frequently used in serum free media where it reports propagates cell growth. In culture media, transferrin to bind endogenous metal ions which may cause cell toxicity.
pregnancy. Transferrin	of transferrin is 2-3.2g/l, this is reduced somewhat in is a major constituent of plasma and found in all body organs. y synthesised in the liver and to a small extent in the brain.
	ransport and delivery protein which promotes cell growth, controlled addition of iron salts to balance the media.
	atch, heat treated at 62°C ± 2°C for 10 hours and lyophilised 02M NH ₄ HCO ₃ solution. May contain traces of buffer salts.
Molecular weight Amino acids Disulphide bonds pH value(s) Prosthetic group Glycosylation Oligomerisation Isoforms	77,000 Two lobes each with an iron binding domain.3 698 19 6.5-8.0 None Sialic acid None 5 Isoforms with different levels of glycosylation
	protein for iron deliver Fe³+ molecules throug can be adjusted to give 1200-1700 ug/gm or d (T100-5) iron < 50 ug/g for cell growth in tissus supports and in some has a secondary role to Plasma concentration pregnancy. Transferrin Transferrin is primarily Transferrin is an iron t the Holo form allows of Single homogenous ba from approximately 0. Molecular weight Amino acids Disulphide bonds pH value(s) Prosthetic group Glycosylation Oligomerisation



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References	 McGillivray R.T.A., Mendez E., Shewale J.G., Sinha S.K., Lineback-Zins J., Brew K. The primary structure of human serum transferrin. The structures of seven cyanogen bromide fragments and the assembly of the complete structure. J. Biol. Chem. 258:3543-3553 (1983) Crichton RR, Charloteaux-Wauters M (1987). Iron transport and storage. Eur. J. Biochem. 164 (3): 485–506 Aisen P, Leibman A, Zweier J (March 1978). Stoichiometric and site characteristics of the binding of iron to human transferrin. J. Biol. Chem. 253 (6): 1930–7
Biological Activity	EC50=0,689-0,837 µg/ ml when externally tested and verified in a Chinese Hamster Ovary (CHO) cell proliferation assay. Holo Transferrin Holo Transferrin Transferrin Transferrin Transferrin Holo Transferrin Transferrin Transferrin Transferrin Holo Transferrin
Nominal Purity	>98% (Determined by coomassie blue stained SDS-PAGE and Cellulose Acetate Electrophoresis)
Iron content	1200 - 1700ppm (Iron estimated by ICP)
Endotoxin	≤ 1 EU/mg by LAL assay
Stability & Formulation	Supplied lyophilised - Store at 2-8°C - Do not freeze
SDS PAGE prior to heat treatment	
EPR spectral analysis	9.28 ————————————————————————————————————

ORDERING DETAILS - USE THE FOLLOWING CODES WHEN ORDERING

Product	Code	Description
Human transferrin (Holo)	T101-5	>98% Pure supplied lyophilised sourced from human serum/plasma

Magnetic field, Gauss

Related Products

+ + +	Code	Description	
÷ +	T100-5	Human transferrin (Apo)	
+ + +	T102-5	Human transferrin (Sidero)	H