

LF

Native Human Lactoferrin

Catalog No.	CRL103A	Quantity:	1.0 mg
	CRL103B		10 mg

Alternate Names: hLF, LTF, growth-inhibiting protein 12, neutrophil lactoferrin, talalactoferrin

Description: Human Lactoferrin plays an important role in iron transport and utilization in humans. A glycoprotein containing about 6% sugar, human lactoferrin is capable of binding two ferric ions with high affinity. Although lactoferrin binds iron tightly, the binding is reversible so that the metal is available upon demand to cells with a need for this essential element. Each human lactoferrin molecule has two iron-binding domains.

Human Lactoferrin (hLF) is an iron-binding glycoprotein that facilitates the production of hydroxyl radicals and chelates iron, preventing its accessibility to microorganisms and thus inhibiting growth. Human Lactoferrin is found in secondary granules in polymorphonuclear neutrophils. Human Lactoferrin from human neutrophil(s) lacks terminal fucose residues in the glycan chains that are required for binding to macrophages.

Protein Accession No: Typically > 1mg/ml

Source: Human Neutrophils

Molecular Weight: 77 kDa

Formulation: Liquid in .05M Sodium Acetate, pH 6.0 + 0.15 NaCl

Purity: > 96% by SDS-PAGE

Storage & Stability: Stable for one year at 2-4°C.

Certification: Non-Infectious Disease Certification: Non-reactive for HIV-1/HCV/HBV by NAT; HBsAg, HCV Ab, HIV-1&2 Ab and RPR by currently approved FDA methods. However, because no test method can offer complete assurance that infectious agents are absent, this material should be handled at Bio-Safety Level 2 (BSL 2) as recommended for potentially infectious human serum or blood specimen in the CCD/NIH manual "Biosafety in Microbiological and Biomedical Laboratories", 1999.

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