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# Human Lactoferrin Peptide hLF1-11

National Cancer Institute

## Source

National Cancer Institute. *Human Lactoferrin Peptide hLF1-11*. NCI Thesaurus. Code C67046.

A synthetic peptide corresponding to the first 11 N-terminal amino acids of human lactoferrin (hLF1-11) with potential antimicrobial activity. Human lactoferrin, a 692 amino acid glycoprotein belonging to the transferrin family of metal-binding proteins, can be found in milk and other secretory fluids as well as in polymorphonuclear cells and leukocytes. Human lactoferrin plays a role in the innate defense of mucosal surfaces and neutrophils. Although the exact mechanism through which this peptide exerts its effect has yet to be fully elucidated, hLF1-11 may seize iron, thereby limiting the availability of free iron for microorganisms in the body. hLF1-11 appears to be effective against a variety of bacteria and fungi, including the multidrug-resistant *Acinetobacter baumannii*, multidrug-resistant *Staphylococcus aureus*, and fluconazole-resistant *Candida albicans* strains.