



Recombinant Protein Technical Manual

Recombinant Human Lactotransferrin/LTF Protein (His Tag) RPES3085

Product Data:

Product SKU: RPES3085

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P02788

Protein Information:

Molecular Mass: 77.3 kDa

AP Molecular Mass: 74 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Lactotransferrin; Lactoferrin; Talalactoferrin; Kaliocin; Lactoferroxin-A; Lactoferroxin-B; Lactoferroxin-C; LTF; LF;GIG12;HEL110;HLF2

Immunogen Information:

Sequence: Gly20-Lys710

Background:

Lactotransferrin is a member of the transferrin family that transfer iron to the cells and control the level of free iron in the blood and external secretions. Lactotransferrin is a secreted protein and contains two transferrin-like domains. Lactotransferrin can be cleaved into the following four chains: Kaliocin, Lactoferroxin-A, Lactoferroxin-B, and Lactoferroxin-C. Lactoferroxin A, Lactoferroxin B, and Lactoferroxin C have opioid antagonist activity. Lactoferroxin A shows preference for mu-receptors, while Lactoferroxin B and Lactoferroxin C have somewhat higher degrees of preference for kappa-receptors than for mu-receptors. LTF has antimicrobial activity (bactericide, fungicide) and is part of the innate defense, mainly at mucoses.