

Recombinant Human Lactotransferrin/LTF Protein (His Tag)

Catalog No. PKSH032679

Note: Centrifuge before opening to ensure complete recovery of vial contents.

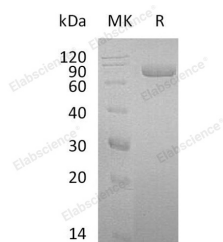
Description

Synonyms	Lactotransferrin;Lactoferrin;Talalactoferrin;Kaliocin-1;Lactoferroxin-A;Lactoferroxin-B;Lactoferroxin-C;LTF;LF;GIG12;HEL110;HLF2
Species	Human
Expression Host	HEK293 Cells
Sequence	Gly20-Lys711
Accession	AAH15822.1
Calculated Molecular Weight	77.3 kDa
Observed molecular weight	90 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, 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, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Lactotransferrin is a member of the transferrin family that transfer iron to the cells and control the level of free iron in the

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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-1; 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.