

Recombinant Human LALBA

Cat. No. LALBA-27311TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human alpha Lactalbumin with a N terminal proprietary tag; Predicted MW 37.73 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	110 amino acids
Description	This gene encodes alpha-lactalbumin, a principal protein of milk. Alpha-lactalbumin forms the regulatory subunit of the lactose synthase (LS) heterodimer and beta 1,4-galactosyltransferase (beta4Gal-T1) forms the catalytic component. Together, these proteins enable LS to produce lactose by transferring galactose moieties to glucose. As a monomer, alpha-lactalbumin strongly binds calcium and zinc ions and may possess bactericidal or antitumor activity. A folding variant of alpha-lactalbumin, called HAMLET, likely induces apoptosis in tumor and immature cells.
Molecular Weight	37.730kDa inclusive of tags
Tissue specificity	Mammary gland specific. Secreted in milk.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	DIDGYGGIALPELICTMFHTSGYDTQAIVENNESTEYGLF QISNKLWCKSSQVPQSR NICDISCDKFLDDDDITDDIMCAK KILDIKGIDYWLAHKALCTEKLQWLCEKL
Sequence Similarities	Belongs to the glycosyl hydrolase 22 family.

GENE INFORMATION

Gene Name	LALBA lactalbumin, alpha- [Homo sapiens]
Official Symbol	LALBA
Synonyms	LALBA; lactalbumin, alpha-; alpha-lactalbumin; LYZL7;
Gene ID	3906
mRNA Refseq	NM_002289
Protein Refseq	NP_002280
MIM	149750
Uniprot ID	P00709
Chromosome Location	12q13

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Pathway	Galactose metabolism, organism-specific biosystem; Galactose metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem;
Function	calcium ion binding; lactose synthase activity;

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