BioVision For research use only

Lactalbumin, Human Milk

CATALOG #: 7286-1000 1 mg 7286-5000 5 mg

ALTERNATE NAMES: LYZL7

SOURCE: Human Milk. Prepared from Human Milk shown to be

non-reactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA required tests.

PURITY: ≥ 95% by SDS-PAGE

MOL. WEIGHT: 14 kDa

EXTINCTION COEFFICIENT: 1.82

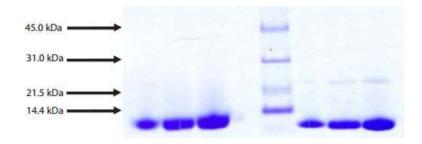
FORM: Lyophilized from de-ionized water

RECONSTITUTION: Deionized water

STORAGE CONDITIONS: Store at -20°C

DESCRIPTION:

 α -Lactalbumin is an important whey protein in cow's milk, and is also present in the milk of many other mammalian species. In primates, alpha-lactalbumin expression is upregulated in response to the hormone prolactin and increases the production of lactose. α -Lactalbumin forms the regulatory subunit of the lactose synthase (LS) heterodimer and β -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. When formed into a complex with Gal-T1, a galactosyltransferase, α -lactalbumin, enhances the enzyme's affinity for glucose by about 1000 times, and inhibits the ability to polymerize multiple galactose units. This gives rise to a pathway for forming lactose by converting Gal-TI to Lactose synthase.



Lactalbumin, Human Milk

- 4-12% Bis-Tris NuPAGE gel
- 1. Lactalbumin 5 µg (reduced / heated)
- 2. Lactalbumin 10 µg (reduced / heated)
- 3. Lactalbumin 20 µg (reduced / heated)
- 4. MW Standard
- 5. Lactalbumin 5 µg (non-reduced / no heat)
- 6. Lactalbumin 10 µg (non-reduced / no heat)
- 7. Lactalbumin 20 µg (non-reduced / no heat)

RELATED PRODUCTS:

- Prolactin Antibody (Cat # 5688-100)
- Prolactin Antibody (Cat # 5689-100)
- Prolactin Receptor, human recombinant (Cat # 4989-20, -1000)
- Prolactin Receptor, rat recombinant (Cat # 4911-10, -50, -1000)
- Prolactin, human recombinant (Cat # 4687-10, -50, -1000)
- Prolactin, murine recombinant (Cat # 4688-10, -50, -1000)
- Prolactin, rat recombinant (Cat # 4689-10, -50, -1000)

FOR RESEARCH USE ONLY! Not to be used in humans.

