

Recombinant Human, Gal-7 / Galectin-7, Animal Free & Carrier Free

Cat #: C-CYP367

Size: 5µg, 20µg, 100µg, 500µg, 1mg

Shipping: Blue Ice

Product Overview

The galectins are a family of beta- galactoside-binding proteins implicated in modulating cell-cell and cell-matrix interactions. Galectin- 7 is a protein that in humans is encoded by the LGALS7 gene. It is expressed at all stages of epidermal differentiation (i.e., in basal and suprabasal layers). The protein was found mainly in stratified squamous epithelium. The cellular localization and its striking down-regulation in cultured keratinocytes imply a role in cell-cell and/or cell–matrix interactions necessary for normal growth control.

Product Information

Source: *Escherichia Coli*.

Purity: >98% as determined by SDS-PAGE. Ni-NTA chromatography.

Biological Activity: Measured by its ability to agglutinate human red blood cells. The ED50 for this effect is

< 2 µg/mL.

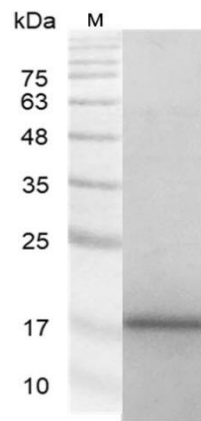
Endotoxin: <0.1EU per 1µg of the protein by the LAL method.

Amino acid sequence:

SNVPHKSSLPEGIRPGTVLRIRGLVPPNASRFHVNLLCGEEQGSDAALHFNPRLDTSEVVFNSKEQGSWGREERGPGVFPQRGQPFEVLII

ASDDGFKAVVGDAQYHHFRHRLPLARVRLVEVGGDVQLDSVRIF with polyhistidine tag at the N-terminus.

Formulation: Lyophilized from a sterile filtered aqueous solution in 1×PBS, pH 7.4.



SDS-PAGE analysis of recombinant human Galectin-7

Usage Method

1. Before opening, it is recommended to centrifuge at 3000-3500 rpm for 5 minutes.
2. Reconstitute to a concentration of 0.1-1.0 mg/mL in sterile distilled H₂O. Allow the solution to sit at room temperature for at least 20 minutes to ensure complete dissolution. Avoid vigorous vortexing.
3. The reconstituted solution can be stored at 2-8°C for up to 1 week.
4. For long-term storage, it is recommended to further dilute the solution with a carrier protein (such as 0.1% BSA, 10% FBS, or 5% HSA) to a concentration of no less than 10 µg/mL and aliquot for storage at -20°C to -80°C for 3 to 6 months. If serum-free experiments are required, a 5% trehalose solution can be used as a carrier instead. Avoid repeated freeze-thaw cycles.

Storage

Physical Appearance	Storage	Stability
Lyophilized powder	-20°C to -80°C	1 year
Reconstitution (initial)	2°C to 8°C	Less than 1 week
Reconstitution (after dilution)	-20°C to -80°C	3 to 6 months

Note

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.