

LGALS1 Protein, Human, Recombinant (His)

General Information

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| Synonyms: | HPL;S-Lac Lectin 1;Lactose-Binding Lectin 1;14 kDa Lectin;Beta-Galactoside-Binding Lectin L-14-I;Gal-1;HBL;Lectin Galactoside-Binding Soluble 1;Galectin-1;Putative MAPK-Activating Protein PM12;Galaptin;LG;HLBP14;14 kDa Laminin-Binding Protein; β -Galactoside-Binding Lectin L-14-I |
| Protein Construction: | Ala2-Asp135 |
| Species: | Human |
| Expression Host: | E. coli |
| Accession: | P09382 |
| Molecular Weight: | 15 KDa (reducing condition) |
| AA Sequence: | Ala2-Asp135 |

QC Testing

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| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity: | Greater than 95% as determined by reducing SDS-PAGE. (QC verified) |
| Endotoxin: | < 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test. |
| Formulation: | Lyophilized from a solution filtered through a 0.22 μ m filter, containing 20 mM Citrate, 8% Trehalose, 4% Mannitol, 50 mM NaCl, 1 mM TCEP, 0.05% Tween 80, pH 4.0. |

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C . For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Galectin-1 is a member of growing family of evolutionary conserved animal lectins. Galectin-1 is widely expressed in many cells and tissues. Galectins consists of a Galectin domain and two Beta-galactoside binding domains.

A DRUG SCREENING EXPERT

Galectin-1 can binds LGALS3BP and interacts with CD2, CD3, CD4, CD7, CD43 and CD45. Galectin-1 may act as an autocrine negative growth factor which regulates apoptosis, cell proliferation and cell differentiation. In addition, Galectin-1 plays important roles in immunosuppressive and antiinflammatory properties.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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