Data Sheet (Cat.No.TMPJ-01024)

TargetMol

Galectin-4 Protein, Human, Recombinant (His)

General Information

Synonyms:	gal-4;Antigen NY-CO-27;L36LBP;galectin 4;LGALS4;Lactose-binding lectin 4
Protein Construction:	Met1-Ile323
Species:	Human
Expression Host:	E. coli
Accession:	P56470
Molecular Weight:	35-38 KDa (reducing condition)
AA Sequence:	Met1-Ile323

QC Testing

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/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 50 mM HEPES, 150 mM NaCl, 5 mM EDTA, 2 mM TCEP, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/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

Galectins are a family of carbohydrate-binding proteins with specificity for N-acetyl-lactosamine-containing glycoproteins. Galectin-4 is a 36 kDa tandem-repeat galectin found throughout the gastrointestinal tract, but also present in well-differentiated breast and liver carcinomas. Galectin-4 expression is concentrated within microvilli in the gastrointestinal epithelium, where it can interact with CD3 and bind activated T cells in the lamina propria during intestinal inflammation.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481