

Galectin-8 Protein, Rat, Recombinant (GST)

General Information

Synonyms:	lectin, galactoside-binding, soluble, 8
Protein Construction:	A DNA sequence encoding rat LGALS8 (NP_446314.2) (Met 1-Trp 316) was fused with the GST tag at the N-terminus. Predicted N terminal: Met
Species:	Rat
Expression Host:	E. coli
Accession:	Q6IN24
Molecular Weight:	63.2 kDa (predicted); 55 kDa (reducing conditions)

QC Testing

Biological Activity:	Measured by its ability to agglutinate human red blood cells. The ED50 for this effect is typically 0.4-4 µg/mL.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, 10% glycerol, 1 mM DTT, pH 8.0. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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.

Reference

Levy Y, et al. (2003) Sustained induction of ERK, protein kinase B, and p70 S6 kinase regulates cell spreading and formation of F-actin microspikes upon ligation of integrins by galectin-8, a mammalian lectin. J Biol Chem. 278 (16):14533-42.

Nishi N, et al. (2003) Galectin-8 modulates neutrophil function via interaction with integrin alphaM. Glycobiology. 13(11):755-63.

Bidon-Wagner N, et al. (2004) Human galectin-8 isoforms and cancer. Glycoconj J. 19(7-9):557-63.

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