

Recombinant Human Galectin-8/LGALS8 Protein (GST Tag)

DIA-AN®
by Elabscience

Catalog Number:PKSH031698

Note: Centrifuge before opening to ensure complete recovery of vial contents.

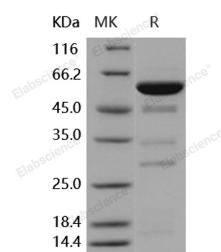
Description

Synonyms	Galectin-8;Gal-8;Po66 Carbohydrate-Binding Protein;Po66-CBP;Prostate Carcinoma Tumor Antigen 1;PCTA-1;LGALS8
Species	Human
Expression Host	E.coli
Sequence	Met 1-Trp 317
Accession	AAF19370.1
Calculated Molecular Weight	62.7 kDa
Observed molecular weight	60 kDa
Tag	N-GST
Bioactivity	Measured by its ability to agglutinate human red blood cells. The ED50 for this effect is typically 0.2-1 µg/ml.

Properties

Purity	> 76 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile 50mM Tris, 0.1 M NaCl, pH 8.0 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 76 % as determined by reducing SDS-PAGE.

Background

Galectin-1 (Gal-1, GAL1), is a member of the galectins, a family of animal lectins ranging from *Caenorhabditis elegans* to humans, which is defined by their affinity for beta-galactosides and by significant sequence similarity in the carbohydrate-binding site. It is a homodimer with a subunit molecular mass of 14.5 kDa, which contains six cysteine residues per subunit. The cysteine residues should be in a free state in order to maintain a molecular structure that is capable of showing lectin activity. This endogenous lectin widely expressed at sites of inflammation and tumour growth,

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has been postulated as an attractive immunosuppressive agent to restore immune cell tolerance and homeostasis in autoimmune and inflammatory settings. On the other hand, galectin-1 contributes to different steps of tumour progression including cell adhesion, migration and tumour-immune escape, suggesting that blockade of galectin-1 might result in therapeutic benefits in cancer. Several potential glycoprotein ligands for galectin-1 have been identified, including lysosome-associated membrane glycoproteins and fibronectin, laminin, as well as T-cell glycoproteins CD43 and CD45. Evidence points to Gal-1 and its ligands as one of the master regulators of such immune responses as T-cell homeostasis and survival, T-cell immune disorders, inflammation and allergies as well as host-pathogen interactions.

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