



DESCRIPTION

Cat No	RXS001Ag*C-1000
Lot	20220824
Source	<i>E. coli</i> -derived
Accession #	P17931
N-terminal Sequence Analysis	Ala2
Predicted Molecular Mass	26 kDa
Concentration	1.8mg/ml

SPECIFICATIONS

SDS PAGE	26 kDa, reducing conditions.
Activity	Measured by its ability to agglutinate human red blood cells. Hadari, Y.R. et al.(2000) J. Cell Sci. 113:2385.The ED50 for this effect is 3-10 µg/mL.
Endotoxin Level	<0.10 EU per 1 µg of the protein by the LAL method.
Purity	>96%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Formulation	Supplied as a 0.2 µm filtered solution in PBS, pH 7.4,5% Glycerol.

PREPARATION AND STORAGE

Shipping

The product is shipped with dry ice or equivalent. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage

.12 months from date of receipt, -20 to -70 °C as supplied.
.3 months, 2 to 8 °C under sterile conditions after reconstitution.

ACTIVITY ASSAY PROTOCOL DATA

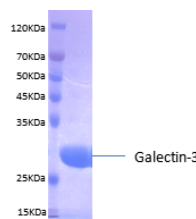
Bioactivity and SDS-PAGE

Bioactivity was measured by its ability to agglutinate human red blood cells.

Hadari, Y.R. et al. (2000) J. Cell Sci. 113:2385. The ED50 for this effect is 3-10 µg/mL.Purity was measured by SDS-PAGE.

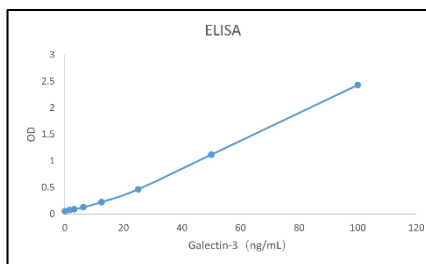
Gel shift assay:

Lane 1: protein marker, Lane 2: 8µg Galectin-3 mixed with SDS loading buffer



Sandwich ELISA:

Dilution curves of recombinant human galectin 3 (RXS001Ag*C-1000) in sandwich ELISA, using capture antibody and detection antibody.





BACKGROUND

Galectin-3 (Gal-3) is also known as LGALS3, It is the only chimera member of the Galectins family. It is formed by cross-linking a glycosyl with a non-glycosyl ligand. Gal-3 includes 3 binding domains, NH2 terminal binding domain, 1 sugar structure recognition domain and 1 A unique domain rich in glycine and proline repeats. LGALS3 / Galectin-3 is expressed in the nucleus, cytoplasm, mitochondrion, cell surface, and extracellular space. LGALS3 / Galectin-3 has been shown to be involved in the following biological processes: cell adhesion, cell activation and chemoattraction, cell growth and differentiation, cellcycle, and apoptosis. Galectin 3 is involved in regulating cell growth, anti-apoptosis, mediating cell adhesion, and participating in biological functions such as blood vessel formation and inflammation. Studies have shown that Galectin-3 is a marker of myocardial fibrosis and is associated with the occurrence of heart failure and an increased risk of death. The content of galectin-3 in patients with ventricular dysfunction will increase, and the content is directly related to the severity of heart failure.

RELATED PRODUCTS

Cat.	Clone number	Description
RXS001Ab04-1000	6-4G11	Monoclonal antibody raised against recombinant human Galectin-3.
RXS001Ab05-1000	E8H3	Monoclonal antibody raised against recombinant human Galectin-3.
RXS001Ab06-1000	E15F10	Monoclonal antibody raised against recombinant human Galectin-3.
RXS001Ab07-1000	Q1E2	Monoclonal antibody raised against recombinant human Galectin-3.
RXS001Ab013-1000	X4B4	Monoclonal antibody raised against recombinant human Galectin-3.
RXS001Ab014-1000	Y7E12	Monoclonal antibody raised against recombinant human Galectin-3.