9051 Mira Mesa Blvd, #910094
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LGALS8 Human

Galectin-8 Human Recombinant
GRF0243

Product Overview

Name	LGALS8 Human
Description	
Galectin-8 Human Recombinant	
Accession (Primary)	O00214
Synonyms	
Galectin-8, Gal-8, Po66 carbohydrate-binding protein, Po66-CBP, Prostate carcinoma tumor antigen 1, PCTA-1, LGALS8.	
Introduction	
Galectins are a family of animal lectins with an affinity for beta-galactosides. This family has at least 14 identified members. Galectins share similarities in the CRD (the carbohydrate recognition domain). Galectins are synthesized as cytosolic proteins. Though localized principally in the cytoplasm and lacking a classical signal peptide, galectins can also be stimulated to secretion by non-classical pathways or alternatively targeted to the nucleus. Galectins are involved in modulating cell-cell and cell-matrix interactions. Galectin-8 is a tandem-repeat-type member of the galectin family, consisting of 2 CRDs attached by a linker peptide. Galectin-8 is greatly expressed in lung carcinomas, a number of forms of prostate carcinomas, in addition to other tumor cells. Galectin-8 attaches to a subset of cell surface integrins to modulate ECM-integrin interactions. Once immobilized, Galectin-8 promotes cell adhesion by ligation and clustering of cell surface integrin receptors. On the other hand, as a soluble ligand, Galectin-8 can inhibit cell adhesion.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
LGALS8 was lyophilized from a concentrated (1mg/ml) solution in 20mM PBS, pH 7.4.	
Stability	
Lyophilized LGALS8 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Galectin-8 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.	
Purity	

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Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Met-Leu-Ser-Leu.

Biological Activity

The ED50 of Galectin-8 as determined by its ability to agglutinate human red blood cells is 0.8~4 µg/ml.

Solubility

It is recommended to reconstitute the lyophilized Galectin-8 in sterile 18M-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

LGALS8 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O00214)