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## Product Data Sheet

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Product Name: LGALS8 Human  
 Cat. No.: GP20289  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Galectin-8; Gal-8; Po66 carbohydrate-binding protein; Po66-CBP; Prostate carcinoma tumor antigen 1; PCTA-1; LGALS8.		
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.		
Solubility	It is recommended to reconstitute the lyophilized Galectin-8 in sterile 18M-cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	LGALS8 was lyophilized from a concentrated (1mg/ml) solution in 20mM PBS, pH 7.4.		

### 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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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### Biological Activity

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

### 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.

### Background

Galectin-8 Human Recombinant produced in E.Coli is a single,non-glycosylated, Polypeptide chain containing 317 amino acids and having a molecular mass of 35.8kDa.The LGALS8 is purified by proprietary chromatographic techniques.

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