



## Product Datasheet

<b>Product Name</b>	Galectin-3 Human Recombinant
<b>Cata No</b>	CB501340
<b>Source</b>	<i>Escherichia Coli.</i>
<b>Synonyms</b>	Galectin-3, GAL3, MAC2, CBP35, GALB, GALIG, LGALS2, LGALS3, Galactose-specific lectin 3, Mac-2 antigen, IgE-binding protein, 35 kDa lectin, Carbohydrate-binding protein 35, CBP 35, Laminin-binding protein, Lectin L-29, L-31, Galactoside-binding protein, GALBP.

### Description

Galectin-3 mediates with the alpha-3, beta-1 integrin the stimulation by cspg4 of endothelial cells migration. Galectin-3 plays an necessary part during the acquisition of vasculogenic mimicry and angiogenic properties associated with melanoma progression. LGALS3 overexpression is highly expressed in early stages of papillary carcinoma, and its expression intensity declines during tumor progression. Serum levels of LGALS3 are high in patients with thyroid malignancy but there is considerable overlap in serum LGALS3 concentrations between those with benign and malignant nodular thyroid disease. LGLAS3 takes part as an immune regulator to inhibit T-cell immune responses and promote tumor growth, as a result providing a new mechanism for tumor immune tolerance.

LGALS3 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 250 amino acids and having a molecular mass of 26 kDa.

The LGALS3 is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

### Biological Activity

Determined by its ability to chemoattract human blood monocytes. Chemotactic activity was observed at a concentration of 2.5 µg/ml with a peak response obtained at 250 µg/ml.

### Purity

Greater than 97.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

### Formulation

The Galectin-3 protein was lyophilized from a concentrated (1mg/ml) containing 10mM sodium phosphate buffer, pH-7.5 and 50mM NaCl.

### Reconstitution

It is recommended to reconstitute the lyophilized LGALS3 in sterile 18MΩ-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

### Stability

Lyophilized Galectin-3 Recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Galectin-3 should be stored at 4°C between 2-7 days and for future use below -18°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**Please prevent freeze-thaw cycles.**

**\* For Non-Clinical Research Use Only \***



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## Sequence

ADNFSLHDAL SGSGNPNPQG WPGAWGNQPA  
GAGGYPGASY PGAYPGQAPP GAYPGQAPPG  
AYHGAPGAYP GAPAPGVYPG PPSGPGAYPS  
SGQPSAPGAY PATGPYGAPA GPLIVPYNLP  
LPGGVVPRML ITILGTVKPN ANRIALDFQR  
GNDVAFHFNP RFNENNRRI VCNTKLDNNW

GREERQSVFP FESGKPKGIVLVEPDKW  
AVNDAHLLQY NHRVKKLNEI SKLGISGDID  
LTSASYTMI

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