

## 32-1222: LGALS3 Recombinant Protein

**Alternative Name :** 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 prote

### Description

Source : Escherichia Coli. LGALS3 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 249 amino acids and having a molecular mass of 26kDa. The LGALS3 is purified by proprietary chromatographic techniques. 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.

### Product Info

**Amount :** 50 µg  
**Purification :** Greater than 97.0% as determined by analysis by SDS-PAGE and HPLC.  
**Content :** The Galectin-3 protein was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4 and 3mM DTT.  
**Storage condition :** 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.  
**Amino Acid :** ADNFSLHDAL SGSGNPNPQG WPGA WGNQPA GAGGYPGASY PGAYPGQAPP GAYPGQAPPG AYPGAPGAYP GAPAPGVYPG PPSGPGAYPS SGQPSATGAY PATGPYGAPA GPLIVPYNLP LPGGVVPRML ITILGTVKPN ANRIALDFQR GNDVAFHFN RFNENNRRI VCNTKLDNNW GREERQSVFP FESGKPFKIQ VLVEPDHFKV AVNDAHLLQY NHRVKKLNEI SKLGISGDID LTSASYTMI.

### Application Note

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. The ED<sub>50</sub> as determined by its ability to agglutinate human red blood cells is less than 10 µg/ml.

