

## LGALS3 Human, His

**Description:** LGALS3 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 270 amino acids (1-250 a.a.) and having a molecular mass of 28.3 kDa. The LGALS3 is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

**Catalog #:** CYPs-700

For research use only.

**Synonyms:** 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, G

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MADNFSLHDA LSGSGNPNPQ  
GWPGAWGNQP AGAGGYPGAS YPGAYPGQAP PGAYPGQAPP GAYPGAPGAY  
PGAPAPGVYP GPPSGPGAYP SSGQPSATGA YPATGPYGAAP AGPLIVPYNL PLPGGVVPRM  
LITLGTVPKP NANRIALDFQ RGNDVAFHFN PRFNENRRRV IVCNTKLDNN WGREERQSVF  
PFESGKPFKI QVLVEPDHFK VA

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

### Formulation:

The Galectin-3 His tag protein solution contains 20mM Tris-HCl pH-8, 10% glycerol & 1mM DTT.

### Stability:

LGALS3 although stable 4°C for 4 weeks, should be stored desiccated 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.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

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.

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