



## Galectin-3, His Tag, human recombinant (rHuGAL3-His)

**Catalog No:** 97308  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**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

### Background

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.

### Description

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

### Physical Appearance

Sterile filtered colorless solution.

### Formulation

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

### Stability

LGALS3, although stable at 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.

### Purity

Greater than 95.0% as determined by SDS-PAGE.

### Amino Acid Sequence

MGSSHHHHHH SSSLVPRGSH MADNFSLHDA LSGSGNPNPQ GWPGAWGNQP AGAGGYPGAS YPGAYPGQAP PGAYPGQAPP  
GAYPGAPGAY PGAPAPGVYP GPPSGPGAYP SSGQPSATGA YPATGPGYAP AGPLIVPYNL PLPGGVVPRM LITILGTVKP  
NANRIALDFQ RGNDVAFHFN PRFNENRRRV IVCNTKLDNN WGREERQSVF PFESGKPFKI QVLVEPDHFK VAVNDAHLLQ  
YNHRVKKLNE ISKLGISGDI DLTSASYTMI

### Usage

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