

**LGALS3, 1-264aa, Mouse, His tag, E.coli (Bioactivity Validated)**

**Cat.NO.: TP02813**

3th Edition

**Synonyms:**Lectin, galactose binding, soluble 3, CBP35, GAL3, GALBP, GALIG, LGALS2, MAC2.

**Description:**LGALS3, also known as galectin 3, is a member of the family of animal lectins, which selectively binds beta-galactoside residues. This protein is secreted from cells by ectocytosis, which is independent of the classical secretory pathway through the endoplasmic reticulum/Golgi network. LGALS3 has been associated with the inhibition of apoptosis and the progression of cancer. It is normally distributed in epithelia of many organs, in various inflammatory cells, including macrophages, as well as dendritic cells and Kupffer cells. The expression of this lectin is up-regulated during inflammation, cell proliferation, cell differentiation and through trans-activation by viral proteins. Recombinant mouse LGALS3 protein, used to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 50% glycerol, 1mM DTT, 2mM EDTA

**Molecular Weight:**29.8 kDa (287aa) confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSMADSFSLNDALAGSGNPNPQGYPGAWGNQPGAGGYPGAAYPGAYPGQA  
PPGAYPGQAPPGAYPGQAPPSAYPGPTAPGAYPGPTAPGAYPGSTAPGAFPGQPGAPGAYPSAPGGYPAAGPY  
GVPAGPLTVPYDLPLPGGVMPRMLITIMGTVKPNANRIVLDFRRGNDVAFHFNPRFNENNRVIVCNTKQDNNWG  
KEERQSAPPFESGKPFKIQVLVEADHFKVAVNDAHLLQYNHRMKNLREISQLGISGDITLTSANHAMI

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.