



Galectin-3, His tag, mouse recombinant (rmLGALS3-His)

Catalog No: 97630
Lot No: XXXXX
Source: *E. coli*.
Synonyms: CBP35, GAL3, GALBP, GALIG, LGALS2, MAC2, Galectin-3, Lectin, galactose binding, soluble 3, Lectin, galactose binding, soluble 3, isoform CRA_a, Lectin, galactose binding, soluble 3, isoform CRA_d, Lgals3

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 Mouse Recombinant produced in *E. coli* is a single polypeptide chain containing 287 amino acids (1-264) and having a molecular mass of 29.8 kDa. LGALS3 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered colorless solution.

Formulation

The LGALS3 solution (0.5 mg/ml) contains 20 mM Tris-HCl buffer (pH 8.0), 0.15 M NaCl, 50% glycerol, 1 mM DTT and 2 mM EDTA.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 95% as determined by SDS-PAGE.

Amino Acid Sequence

MGSSHHHHHH SSSLVPRGSH MGSMADSFSL NDALAGSGNP NPQGYPGAWG NQPGAGGYPG AAYPGAYPGQ APPGAYPGQA
 PPGAYPGQAP PSAYPGPTAP GAYPGPTAPG AYPGSTAPGA FPGQPGAPGA YPSAPGGYPA AGPYGVPA GP LTVPYDLPLP
 GGVMPRLIT IMGTVKPNAN RIVLDFRRGN DVAHFHNPRF NENNRVIVC NTKQDNNWGK EERQSAFPFE SGKPFKIQVL
 VEADHFKVAV NDAHLLQYNH RMKNLREISQ LGISGDITLT SANHAMI

Usage

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CONTACT US TODAY

BIOMOL GmbH • Kieler Straße 303a • 22525 Hamburg • Germany • info@biomol.de • www.biomol.de

Fon: +49 (0)40-853 260 0 • TOLL FREE IN GERMANY: Fon: 0800-246 66 51