
Product Data Sheet

Product Name: LGALS3 Human

Cat. No.: GP20281

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
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; GALBP.		
Amino Acid Sequence	MADNFSLHDAL SGSGNPNPQG WPGAWGNQPA GAGGYPGASY PGAYPGQAPP GAYPGQAPP GAYPGAPGAYP GAPAPGVYYPG PPSGPGAYPS SGQPSATGAY PATGPYGAPA GPLIVPYNLP LPGGVVPRML ITILGTVKPN ANRIALDFQR GNDVAFHFNP RFNENRRRVI VCNTKLDNNW GREERQSVFP FESGKPFKI Q VLVEPDHFKV AVNDAHLLQY NHRVKKLNEI SKLGISGDID LTSASYTMI.		
Solubility	It is recommended to reconstitute the lyophilized LGALS3 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The Galectin-3 protein was lyophilized from a sterile 0.2 micron filtered aqueous solution containing 10 mM sodium phosphate and 50mM sodium chloride, pH 7.5.		

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

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Stability

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.

Background

LGALS3 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 250 amino acids and having a molecular mass of 26.2kDa. The LGALS3 is purified by proprietary chromatographic techniques.

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