
Product Data Sheet

Product Name: LGALS3 Human, His
 Cat. No.: GP20282
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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	MGSSHHHHHH SGLVPRGSH MADNFS LHDA LSGSGNPNPQ GWPGAWGNQP AGAGGYPGAS YPGAYPGQAP PGAYPGQAPP GAYPGAPGAY PGAPAPGVYP GPPSGPGAYP SSGQPSATGA YPATGPY GAP AGPLIVPYNL PLPGGVVPRM LITILGTVKP NANRIALDFQ RGNDVAFHFN PRFNENRRRV IVCNTKLDNN WGREERQSVF PFESGKPFKI QVLVEPDHFK VAVNDAHLLQ YNHRVKKLNE ISKLGISGDI DLTSASYTMI.		
Formulation	The Galectin-3 protein solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 0.1M NaCl, 1mM DTT and 10% Glycerol.		

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.

Biological Activity

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

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The ED50 for this effect is < 2.5ug/ml as measured by its ability to agglutinate human red blood cells.

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.

Background

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.

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