Active Recombinant Human Lectin, Galactoside-Binding, Soluble, 3

Cat. No. LGALS3-452H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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 kDa. The LGALS3 is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Description	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.
Form	The Galectin-3 protein was lyophilized from a concentrated (1mg/ml) containing 10mM sodium phosphate buffer, pH-7.5 and 50mM NaCl.
Purity	Greater than 97.0% as determined by(a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Bio-activity	Determined by its ability to chemoattract human blood monocytes. Chemotactic activity was observed at a concentration of 2 g/ml with a peak response obtained at 220 g/ml.

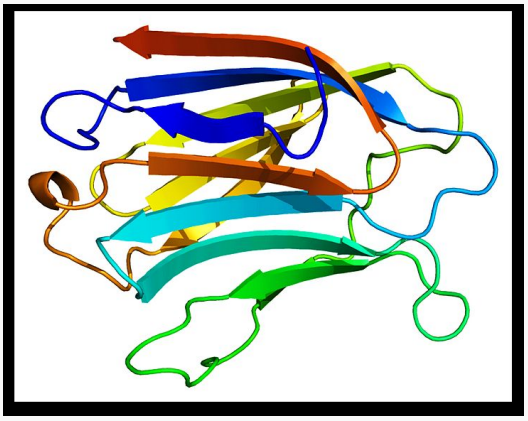
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Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Solubility	It is recommended to reconstitute the lyophilized LGALS3 in sterile 18Mμ-cm H2O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.
Amino acid sequence	ADNFSLHDAL SGSGNPNPQG WPGAWGNQPA GAGGYPGASY PGAYPGQAPP GAYPGQAPPG AYHGAPGAYP GAPAPGVYPG PPSGPGAYPS SGQPSAPGAY PATGPYGAPA GPLIVPYNLP LPGGVVPRML ITILGTVKPN ANRIALDFQR GNDVAFHFNP RFNENNRRVI VCNTKLDNNW GREERQSVFP FESGKPFKIQ VLVEPDHFKV AVNDAHLLQY NHRVKKLNEI SKLGISGDID LTSASYTMI.
Storage	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.

GENE INFORMATION

Gene Name	LGALS3 lectin, galactoside-binding, soluble, 3 [Homo sapiens]
Official Symbol	LGALS3
Synonyms	LGALS3; lectin, galactoside-binding, soluble, 3; Galectin-3; beta-galactosides-binding lectin; lectin, galactoside-binding, soluble, 3 (galectin 3)
Gene ID	404021
UniProt ID	P38486

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PDBrendering based on 1a3k.	

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