

32-12080: Human Galectin-3

Gene : LGALS3

Gene ID : 3958

Uniprot ID : P17931

Alternative Name : 35 kDa lectin, Carbohydrate-binding protein 35, Galactose-specific lectin 3, Galactoside-binding protein, IgE-binding protein, L-31, Laminin-binding protein, Lectin L-29, Mac-2 antigen, MAC2

Description

Source: Genetically modified E.coli.

Predicted MW: Monomer, 26.2 kDa (250 aa)

Å Galectin-3 belongs to the lectin family of carbohydrate binding proteins. Galectin-3 is expressed by a wide range of cell types including activated T cells, tumor cells, macrophages, osteoclasts, fibroblasts, and epithelial cells. Galectin-3 has specific binding affinity for beta-galactoside sugar moieties and has functional roles during development, innate immunity, cell apoptosis, and tumor metastasis. Galectin-3 is associated with cancer, heart failure, stroke, and inflammation. The amino acid sequences of human and mouse Galectin-3 proteins share 80% homology.

Product Info

Amount : 50 µg / 100 µg

Purification : Reducing and Non-Reducing SDS PAGE at $\geq 95\%$

Content : Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5
Sterile water at 0.1 mg/mL

Storage condition : Store at -20°C

Amino Acid : MADNFSLHDA LSGSGNPNPQ GWPGAWGNQP AGAGGYPGAS YPGAYPGQAP PGAYPGQAPP
GAYPGAPGAY PGAPAPGVYP GPPSGPGAYP SSGQPSATGA YPATGPYGAP AGPLIVPYNL PLPGGVVPRM
LITILGTVKP NANRIALDFQ RGNDAVAFHN PRFNENRRV IVCNTKLDNN WGREERQSVF PFESGKPKFI
QVLVEPDHFK VAVNDAHLLQ YNHRVKKLNE ISKLGISGDI DLTSASYTMI

Application Note

Endotoxin: Less than $0.1 \text{ ng}/\mu\text{g}$ (1 IEU/ μg) as determined by LAL test.

Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vial to compensate for this loss.



