

ARG70147 Human Galectin 3 recombinant protein (Active) (His-tagged, N-ter)

Package: 100 µg, 20 µg
Store at: -20°C

Summary

Product Description	E. coli expressed, His-tagged (N-ter) Active Human Galectin 3 recombinant protein
Tested Application	SDS-PAGE
Target Name	Galectin 3
Species	Human
A.A. Sequence	Ala2 - Ile250
Expression System	E. coli
Activity	Active
Activity Note	Determined by its ability to chemoattract human PBMC using a concentration range of 2.5-25 µg/mL. Note: Results may vary from different PBMC donors.
Alternate Names	Laminin-binding protein; Gal-3; L-31; GALBP; Galactoside-binding protein; MAC2; GAL3; GALIG; Mac-2 antigen; CBP 35; Galectin-3; CBP35; Galactose-specific lectin 3; IgE-binding protein; L31; 35 kDa lectin; Carbohydrate-binding protein 35; Lectin L-29

Properties

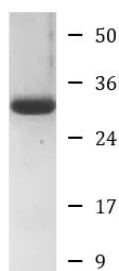
Form	Powder
Purification Note	Endotoxin level is less than 0.1 EU/µg of the protein, as determined by the LAL test.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4)
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min at room temperature to make sure the protein is dissolved completely.
Storage instruction	For long term, lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and store at -20°C or -80°C for up to one month. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	LGALS3
Gene Full Name	lectin, galactoside-binding, soluble, 3
Background	This gene encodes a member of the galectin family of carbohydrate binding proteins. Members of this protein family have an affinity for beta-galactosides. The encoded protein is characterized by an N-terminal proline-rich tandem repeat domain and a single C-terminal carbohydrate recognition domain. This protein can self-associate through the N-terminal domain allowing it to bind to multivalent saccharide ligands. This protein localizes to the extracellular matrix, the cytoplasm and the nucleus. This protein plays a role in numerous cellular functions including apoptosis, innate immunity, cell adhesion and T-cell regulation. The protein exhibits antimicrobial activity against bacteria and fungi. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Oct 2014]

Function	Galactose-specific lectin which binds IgE. May mediate with the alpha-3, beta-1 integrin the stimulation by CSPG4 of endothelial cells migration. Together with DMBT1, required for terminal differentiation of columnar epithelial cells during early embryogenesis (By similarity). In the nucleus: acts as a pre-mRNA splicing factor. Involved in acute inflammatory responses including neutrophil activation and adhesion, chemoattraction of monocytes macrophages, opsonization of apoptotic neutrophils, and activation of mast cells. [UniProt]
Cellular Localization	Cytoplasm. Nucleus. Secreted. Note=Secreted by a non-classical secretory pathway and associates with the cell surface. [UniProt]

Images



Human Galectin 3
recombinant protein

ARG70147 Human Galectin 3 recombinant protein (Active) (His-tagged, N-ter) SDS-PAGE image

SDS-PAGE analysis of ARG70147 Human Galectin 3 recombinant protein (Active) (His-tagged, N-ter).