Datasheet

Cat. No. P1229

Recombinant Human Galectin-1

Information

Accession #	P1229
Alternate Names	BHL、Galaptin、GBP、L-14、LGALS1
Source	*Escherichia coli.*
Protein sequence	ACGLVASNLN LKPGECLRVR GEVAPDAKSF VLNLGKDSNN LCLHFNPRFN AHGDANTIVC NSKDGGAWGT EQREAVFPFQ PGSVAEVCIT FDQANLTVKL PDGYEFKFPN RLNLEAINYM AADGDFKIKC VAFD
M.Wt	14.6 kDa
Appearance	Solution protein
Stability & Storage	Avoid repeated freeze-thaw cycles. It is recommended that hat the protein be aliquoted for optimal storage.- 12 months from date of receipt, -20 to -70°C as supplied.
Concentration	0.1-1.0 mg/mL
Formulation	Dissolved in Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. This solution can be diluted into other aqueous buffers.
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human blood monocytes is in a concentration range of 1.0-10 ng/ml.
Shipping Condition	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Quality Control

Purity	> 95%, determined by SDS-PAGE.
Endotoxin	<0.1 EU per 1 ug of the protein by the LAL method.

Description

Human Galectin-1 also named BHL, Galaptin, GBP, L-14 and LGALS1, is belonging to the galectins family and it is encoded by the LGALS1 gene in human. Galectin-1 is expressed by the endometrial stromal cells throughout the menstrual cycle. Galectin-1 contains a single carbohydrate recognition domain through which it can bind glycans both as a monomer and as a homodimer. Dimers are non-covenantly bound and will spontaneously disassociate in low concentration. Galectin-1 may act as an autocrine negative growth factor that regulates cell proliferation. Galectin-1 is thought to play a role in the immunosuppression required for a successful pregnancy. Human Galectin-1 shares 88 %-90 % amino acid sequence identity with rat and mouse.

Reference

[1]. Hieshima K, Imai T, Baba M, et al. 1997. J Immunol, 159: 1140-9.

[2]. Chenivesse C, Chang Y, Azzaoui I, et al. 2012. J Immunol, 189: 128-37.

[3]. Azzaoui I, Yahia SA, Chang Y, et al. 2011. Blood, 118: 3549-58.

[4]. Adema GJ, Hartgers F, Verstraten R, et al. 1997. Nature, 387: 713-7.

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