

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	603-01
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 14.6 kDa, a single non-glycosylated polypeptide chain containing 134 amino acids.
Quantity:	10µg/50µg/1000µg
AA Sequence:	ACGLVASNLN LKPGECLRVR GEVAPDAKSF VLNLGKDSNN LCLHFNPRFN AHGDANTIVC NSKDGGAWGT EQREAVFPFQ PGSVAEVCIT FDQANLTVKL PDGYEFKFPN RLNLEAINYM AADGDFKIKC VAFD
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
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.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.4, with 1 mM DTT.
Endotoxin:	Less than 0.1 EU/µg of rHuGalectin-1 as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C . Further dilutions should be made in appropriate buffered solutions.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 12 months from date of receipt, -20 to -70 °C as supplied.● 1 month, 2 to 8 °C under sterile conditions after reconstitution.● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. NOT FOR HUMAN USE.

Human Galectin-1

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-covalently 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.