Galectin-1/LGALS1 Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P78301
Synonyms:	Galectin-1; HLBP14; S-Lac lectin 1; LGALS1; GAL1; GBP; DKFZp686E23103
Species:	Mouse
Source:	HEK293
Accession:	P16045 (A2-E135)
Gene ID:	16852
Molecular Weight:	45-52 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Galectin-1/LGALS1 Protein functions as a versatile lectin with a high affinity for beta-galactoside and a diverse range of complex carbohydrates. Its pivotal role extends to the regulation of apoptosis, cell proliferation, and cell differentiation. Notably, Galectin-1/LGALS1 acts as an inhibitor of CD45 protein phosphatase activity, thereby preventing the dephosphorylation of Lyn kinase. Furthermore, it serves as a potent inducer of T-cell apoptosis and exists as a homodimer. The protein engages in various interactions, binding to LGALS3BP and interacting with cell surface proteins such as CD2, CD3, CD4, CD6, CD7, CD43, ALCAM, and CD45. Galectin-1/LGALS1 also forms associations with laminin through poly-N-acetyllactosamine binding and interacts with SUSD2. A noteworthy interaction occurs with the cargo receptor TMED10, facilitating translocation from the cytoplasm into the endoplasmic reticulum-Golgi intermediate compartment (ERGIC) and subsequent secretion.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA