

Product Data Sheet

Galectin-1/LGALS1 Protein, Mouse

Cat. No.:	HY-P74131
Synonyms:	Galectin-1; Gal-1; HLBP14; HPL; S-Lac Lectin 1; LGALS1
Species:	Mouse
Source:	E. coli
Accession:	P16045 (M1-E135)
Gene ID:	16852
Molecular Weight:	Approximately 15 kDa

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Background	Galectin-1/LGALS1 Protein functions as a versatile lectin with a high affinity for beta-galactoside and a diverse ran complex carbohydrates. Its pivotal role extends to the regulation of apoptosis, cell proliferation, and cell different 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 hor

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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