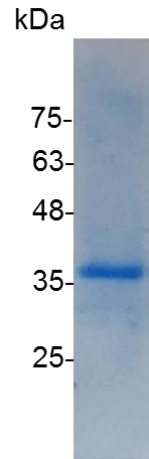


Catalog number	C01162-5UG / C01162-20UG / C01162-100UG
Package	5 µg / 20 µg / 100 µg
Description	<p>Galectin-9 is belonging to the lectin family, that containing total 15 mammalian lectin members. Similar to other galectins, There is a carbohydrate recognition binding domain that enables Galectin-9 binding to β-galactosides specifically. Most galectins are either bivalent or multivalent regarding their carbohydrate binding capacity, which enables the recognition of distinct signaling pathways. Galectin-9 may be retained intracellularly or transported to the cell surface where it can be cleaved to generate a soluble form. Galectin-9 functions in effector and regulatory phases of the immune response. During inflammation, the production of Galectin-9 in vivo generates a microenvironment that limits effector T cell responses. Galectin-9 can negatively regulate the Th1 immune response by engaging TIM-3 on T cells, which leads to induction of intracellular Ca²⁺ influx and activation of apoptosis pathways.</p>
Source	<i>Escherichia coli</i>
Sequence	<p>AFSGSQAPYLSPAVPFSGTIQGGLQDGLQITVNGTVLSSSGTRFAVNFQTGFS GNDIAHFHFNPRFEDGGYVVCNTRQNGSWGPEERKTHMPFQKGMFDLCFLV QSSDFKVMVNGILFVQYFHRVPPFHRVDTISVNGSVQLSYISFQPPGVWPANPA PITQTVIHTVQSAPGQMFSTPAIPPMYPHPAYPMPFITLILGGLYPSKSILLSGT VLPSAQRFHINLCSGNHIAFHNLNPRFDENAVVRNTQIDNSWGSEERSLPRKMP FVRGQSFSVWILCEAHCLKVAVDGQHLFEYYHRLRNLPTINRLEVGGDIQLTHV QT with polyhistidine tag at the N-terminus</p>
Endotoxin level	<0.1 EU per 1 µg of the protein by the LAL method.
Activity	Measured by its ability of the immobilized protein to support the adhesion of Jurkat cells. The ED ₅₀ for this effect is <3 µg/mL.
Purity	>98% as determined by SDS-PAGE.
Form	Lyophilized
Storage Buffer	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Stability & Storage	This product is stable after storage at:

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- -20°C for 12 months in lyophilized state from date of receipt.
 - -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.



SDS-PAGE analysis of recombinant human Galectin-9

For research use only.