

Active Recombinant Human LGALS8 Protein (Met2-Trp317), N-His tagged, Animal-free, Carrier-free

Cat. No. LGALS8-194H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human LGALS8 Protein (Met2-Trp317) with N-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Met2-Trp317
Description	Galectin-8 (Gal-8) is a lectin family member and is one of the tandem repeat-type galectins containing two carbohydrate recognition domains (CRD) connected by a linker region in a single peptide chain. The CRD is responsible for β-galactoside binding, and the binding partners for galectin-8 have been identified, including CD44 and a subset of integrins. Galectin-8 and integrins form complexes, subsequently leading to phosphorylation of paxillin and focal adhesion kinase (FAK), which activates signal pathways including MAPK-ERK and PI3K-AKT pathways. Galectin-8 is constitutively presented in the Liver, kidney, cardiac muscle, lung, and brain. Galectin-8 serves as an immunosuppressive protective role against autoimmune CNS inflammation, regulating the balance of Th17 and Th1 polarization.
Form	Lyophilized
Bio-activity	Measured by its ability to agglutinate human red blood cells. The ED50 for this effect is < 8

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	µg/mL.
Molecular Mass	The protein has a calculated MW of 36.6 kDa. The protein migrates as 34 kDa under reducing condition (SDS-PAGE analysis).
Endotoxin	< 0.1 EU/µg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
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.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

Gene Name	LGALS8 lectin, galactoside-binding, soluble, 8 [Homo sapiens (human)]
Official Symbol	LGALS8
Synonyms	LGALS8; lectin, galactoside-binding, soluble, 8; galectin-8; galectin 8; PCTA 1; galectin-8g; Po66 carbohydrate binding protein; po66 carbohydrate-binding protein;

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prostate carcinoma tumor antigen 1; Gal-8; PCTA1; PCTA-1; Po66-CBP;

Gene ID 3964

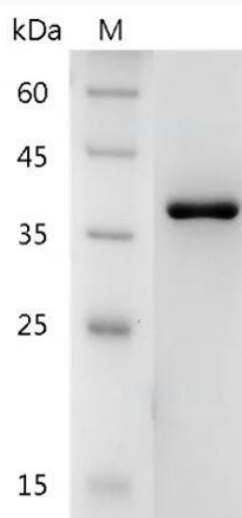
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Protein Refseq NP_006490

MIM 606099

UniProt ID O00214

**SDS-PAGE analysis
of recombinant
human Galectin-8.**



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