Active Recombinant Mouse Lgals8 Protein, His-tagged

Cat. No. Lgals8-7395M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse LGALS8 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Mouse
Source	E.coli
ProteinLength	1-316
Description	Beta-galactoside-binding lectin that acts as a sensor of membrane damage caused by infection and restricts the proliferation of infecting pathogens by targeting them for autophagy. Detects membrane rupture by binding beta-galactoside ligands located on the lumenal side of the endosome membrane; these ligands becoming exposed to the cytoplasm following rupture. Restricts infection by initiating autophagy via interaction with CALCOCO2/NDP52. Required to restrict infection of bacterial invasion such as S.typhimurium. Also required to restrict infection of Picornaviridae viruses. Has a marked preference for 3'-O-sialylated and 3'-O-sulfated glycans.
Form	Liquid
Bio-activity	The ED50 for this effect is 3.9–15.63 μg/mL, measured by its ability to agglutinate human red blood cells. Biological assay: 1. Mix equal volumes of human blood and Alsever's solution (pH 7.0). (Alsever's solution: NaCl 0.42 g, Sodium citric acid 0.8 g, Citric acid 0.055 g, D-glucose 2.05 g in

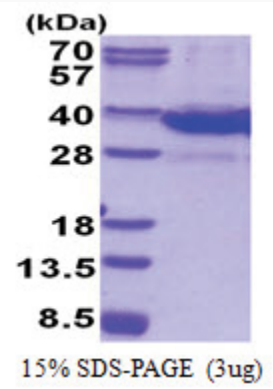
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	DW100 mL). 2. Centrifuge at 15000 rpm for 10 minutes and wash four times with PBS. 3. Dilute packed cells in a 0.5 mg/mL trypsin-EDTA solution to give 4% red cell suspension. 4. Incubate for 1 h at 37 centigrade and wash four times with PBS. 5. Dilute packed cells in PBS to give 4% red cell suspension. 6. Load 50 µL of 0.5% BSA-in-0.15 M-NaCl solution and 25 µL of 4% Red cell-in-PBS in U shaped wells. 7. Add 25 µL of serial diluted Galectin protein in PBS to each well plate. (Round bottom 96 well plate). 8. Incubate for 30 min at room temperature to observe visible agglutination.
Molecular Mass	38 kDa
AA Sequence	MGSSHHHHHHSSGLVPRGSHMGSMLSLNNLQNIIYNPIIPYVGTITEQLKPGSLIVIR GHVPKDSERFQVDFQLGNSLKPRADVAFHFNPRFKRSSCIVCNTLTQEKWGWEEIT YDMPFRKEKSFEIVFMVLKNKFQVAVNGRHVLLYAHRISPEQIDTVGIYGKVNIHSIGF RFSSDLQSMETSALGLTQINRENIQKPGKLQLSLPFEARLNASMGPGRTVVIKGEVN TNARSFNVDLVAGKTRDIALHLNPRLNVKAFVRNSFLQDAWGEEERNITCFPFSSGM YFEMIIYCDVREFKVAINGVHSLEYKHRFKDLSSIDTLSVDGDIRLLDVRSW
Purity	> 90 % by SDS-PAGE
Stability	Shelf life: one year from despatch.
Storage	Store undiluted at 2-8 centigrade for one week or (in aliquots) at -20 to -80 centigrade for longer. Avoid repeated freezing and thawing.
Concentration	0.5 mg/mL (determined by Bradford assay)

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Storage Buffer	20 mM Tris-HCl buffer (pH 8.0) containing 0.15 M NaCl, 20 % glycerol and 1 mM DTT

GENE INFORMATION

Gene Name	Lgals8 lectin, galactose binding, soluble 8 [Mus musculus (house mouse)]
Official Symbol	Lgals8
Synonyms	Lgals8; lectin, galactose binding, soluble 8; Lga; Lgals-8; AI326142; D13Ertd524; D13Ertd524e; 1200015E08Rik; galectin-8; galectin-8L; lectin, galactose binding, soluble 5
Gene ID	56048
mRNA Refseq	NM_001199043
Protein Refseq	NP_001185972
UniProt ID	Q9JL15
SDS-PAGE	 15% SDS-PAGE (3ug)

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