OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AR50596PU-N

Galectin-8 (1-316, His-tag) Mouse Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Galectin-8 (1-316, His-tag) mouse recombinant protein, 0.25 mg
Species:	Mouse
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSMLSLNNL QNIIYNPIIP YVGTITEQLK PGSLIVIRGH VPKDSERFQV DFQLGNSLKP RADVAFHFNP RFKRSSCIVC NTLTQEKWGW EEITYDMPFR KEKSFEIVFM VLKNKFQVAV NGRHVLLYAH RISPEQIDTV GIYGKVNIHS IGFRFSSDLQ SMETSALGLT QINRENIQKP GKLQLSLPFE ARLNASMGPG RTVVIKGEVN TNARSFNVDL VAGKTRDIAL HLNPRLNVKA FVRNSFLQDA WGEEERNITC FPFSSGMYFE MIIYCDVREF KVAINGVHSL EYKHRFKDLS SIDTLSVDGD IRLLDVRSW
Tag:	His-tag
Predicted MW:	38 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol and 1 mM DTT
Bioactivity:	Biological: The ED50 for this effect is 3.9–15.63 ug/ml, measured by its ability to agglutinate human red blood cells. (Biological assay **See "Protocols**").
Preparation:	Liquid purified protein

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Applications:

Protocol: **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 0.8g, Citric acid 0.055 g, D-glucose 2.05g in 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 1h at 37°C and wash four times with PBS.
5. Dilute packed cells in PBS to give 4% red cell suspension.
6. Load 50ul of 0.5% BSA-in-0.15M-NaCl solution and 25ul of 4% Red cell-in-PBS in u shaped wells.
7. Add 25ul 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.

Protein Description: Recombinant mouse LGALS8 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

RefSeq: NP_001185972

Locus ID: 56048

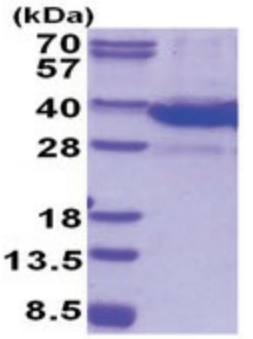
UniProt ID: Q9JL15, Q542M5

Cytogenetics: 13 4.64 cM

Synonyms: 1200015E08Rik; AI326142; D13Ertd524e; Lgals-8

Summary: 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.[UniProtKB/Swiss-Prot Function]

Product images:



15% SDS-PAGE (3ug)