Active Recombinant Human LGALS9 protein

Cat. No. LGALS9-443H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human LGALS9(Ala2-Thr323) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	2-323 a.a.
Predicted N Terminal	Ala2
Form	Lyophilized from a 0.2 μm filtered solution in MOPS, NaCl, EDTA, DTT and Trehalose.
Bio-activity	Measured by its ability to induce apoptosis of Jurkat human acute T cell leukemia cells. Lu, L.H. et al. (2007) J. Biochem. 141:157. The ED50 for this effect is typically 1-5 μg/mL. Measured by its ability to agglutinate human red blood cells. Hadari, Y.R. et al. (2000) J. Cell Sci. 113:2385. The ED50 for this effect is typically 2.5-12.5 μg/mL.
Molecular Mass	Predicted Molecular Mass: 35.8 kDa;SDS-PAGE: 34 kDa, reducing conditions.
Endotoxin	<1.0 EU per 1 μg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Avoid repeated freeze-thaw cycles.12 months from date of receipt, -20 to -70

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	centigrade as supplied.1 month, 2 to 8 centigrade under sterile conditions after reconstitution.3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 100 µg/mL in water.

GENE INFORMATION

Gene Name	LGALS9 lectin, galactoside-binding, soluble, 9 [Homo sapiens]
Official Symbol	LGALS9
Synonyms	LGALS9; lectin, galactoside-binding, soluble, 9; galectin-9; galectin 9; LGALS9A; gal-9; ecalectin; tumor antigen HOM-HD-21; urate transporter/channel protein; HUAT; MGC117375; MGC125973; MGC125974;
Gene ID	3965
mRNA Refseq	NM_002308
Protein Refseq	NP_002299
MIM	601879
UniProt ID	O00182
Chromosome Location	17q11.2
Pathway	1. Germinal center kinase-like kinase (GLK/MAP4K3) expression is increased in adult-onset Still's disease and may act as an activity marker. Chen DY, et al. BMC

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	Med, 2012 Aug 6. 2. MAP4K3 enhances the expression of the BH3-only protein BID. Lam D, et al. Cell Cycle, 2009 Oct 15. 3. Activation of the c-Jun N-terminal kinase pathway by a novel protein kinase related to human germinal center kinase. Diener K, et al. Proc Natl Acad Sci U S A, 1997 Sep 2.
Function	galactose binding; signal transducer activity; sugar binding; sugar binding;

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