

Galectin 12 (GAL12) Active Protein | GAL12 active protein

Active Galectin 12 (GAL12)

CATALOG # AAA152176	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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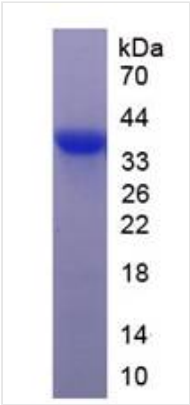
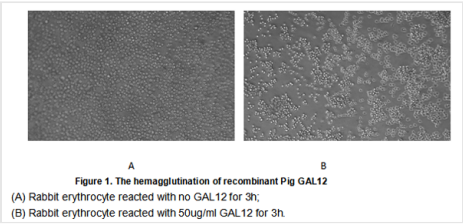
PRODUCT SYNONYMS

Galectin 12 (GAL12); Active Galectin 12 (GAL12); GAL12/Galectin 12; LGALS12; GRIP1; Lectin; Galactoside-Binding Soluble 12; Galectin-related inhibitor of proliferation; GAL12 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300. Freeze-dried powder
Sequence	Met1~Tyr31 4
Applicable Applications for GAL12 active protein	Activity Assay, Cell Culture
Species	Pig
Isoelectric Point	9.4
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0mg/mL. Do not vortex.
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months Stable for 12 months if correctly stored.

IMAGES



SDS-PAGE
SDS-PAGE

Bioactivity

Galectin-12 is a member of a family of mammalian lectins known as galectins. The galectins constitute a large family of carbohydrate-binding proteins that function in many systems both intracellularly and following secretion. Galectins contain either one or two carbohydrate recognition domains (CRR) which mediate recognition of N-acetyl-lactosamine-containing glycoproteins. Individual galectins differ in their tissue distribution and in their carbohydrate-binding specificities. Galectin-12 is predominantly expressed in adipose tissue and detected also in macrophages and other leukocytes. It plays an important role in cell-cell adhesion, cell-matrix interactions, macrophage activation, angiogenesis, metastasis, apoptosis. In this case, we chose rabbit erythrocyte (RaE) to assay its ability of agglutination. A general procedure for hemagglutination assay (or haemagglutination assay; HA) is as follows, two-fold dilute the recombinant Po GAL12 with 0.9% sodium chloride injection, add 50uL a serial dilution of GAL12 to each well of a U or V-bottom shaped 96-well microtiter plate. The final well serves as a negative control with no GAL12, replace with 50uL 0.9% sodium chloride injection. Then add 50uL 1% rabbit erythrocyte to each well and mixed gently. The plate is incubated for 3 hours at room temperature. The results are shown in Figure 1. It was obvious that the minimal effective concentration of GAL12 is 0.195 ug/mL.

ADDITIONAL INFORMATION

Product Categories/Family for GAL12 active protein	Metabolic pathway; Active proteins/AP
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NCBI AND UNIPROT INFORMATION

NCBI GI #	218664495
NCBI GeneID	100217395
NCBI Accession #	NP_001136316.1
NCBI GenBank Nucleotide #	NM_001142844.1
UniProt Accession #	B7U2G9; F1RPX8
Molecular Weight	35,158 Da
NCBI Official Full Name	galectin-12
NCBI Official Symbol	LGALS12
NCBI Protein Information	galectin-12
UniProt Protein Name	Galectin
UniProt Gene Name	LGALS12

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.