

Datasheet for ABIN3082982

LGALS1/Galectin 1 Protein (AA 2-135) (His tag)



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2 Images

Overview

Quantity:	1 mg
Target:	LGALS1/Galectin 1 (LGALS1)
Protein Characteristics:	AA 2-135
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LGALS1/Galectin 1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence: MHHHHHHACG LVASNLNLKP GECLRVRGEV APDAKSFVLN LGKDSNNLCL HFNPRFNAHG
DANTIVCNSK DGGAWGTEQR EAVFPFQPGS VAEVCITFDQ ANLTVKLPDG YEFKFPNRLN
LEAINYMAAD GDFKIKCVAF D

Specificity: N-terminal His-tag

- Characteristics:
- Made in Germany - from design to production - by highly experienced protein experts.
 - Human LGALS1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
 - State-of-the-art algorithm used for plasmid design (Gene synthesis).

This made-to-order protein has already been successfully produced. Please let us know if you are interested in purchasing a smaller amount of this protein. We will check our stock and make you a customized quote in case we can provide this protein in a smaller amount..

When you order this made-to-order protein you will only pay upon receipt of the correctly

Product Details

folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. The concentration of the protein is calculated using its specific absorption coefficient. We use the Expsy's protparam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	LGALS1/Galectin 1 (LGALS1)
Alternative Name:	LGALS1 (LGALS1 Products)
Background:	Lectin that binds beta-galactoside and a wide array of complex carbohydrates. Plays a role in regulating apoptosis, cell proliferation and cell differentiation. Inhibits CD45 protein phosphatase activity and therefore the dephosphorylation of Lyn kinase. Strong inducer of T-cell apoptosis. {ECO:0000269 PubMed:14617626, ECO:0000269 PubMed:18796645, ECO:0000269 PubMed:19497882, ECO:0000269 PubMed:24945728}.
Molecular Weight:	15.5 kDa Including tag.
UniProt:	P09382
Pathways:	Carbohydrate Homeostasis

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Comment: In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 137 mM NaCl, 2.7 mM KCl, 10 mM Na₂HPO₄, 1.8 mM KH₂PO₄ pH 7.4

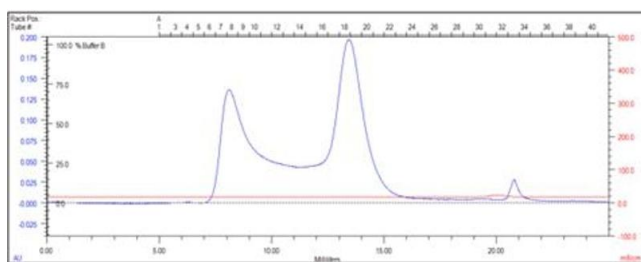
Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)

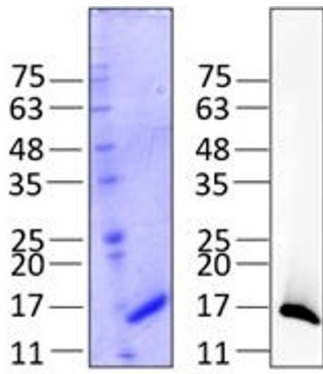
Images



Lectin, Galactoside-Binding, Soluble, 1 (LGALS1)|P09382|2-135, gel filtration, Superdex 75 fractions 17-21

Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 1.



Lectin, Galactoside-Binding, Soluble, 1
(LGALS1) | P09382 | 2-135
Fractions 17-21

Western Blotting

Image 2.