Animal-Free Galectin-2/LGALS2 Protein, Human (His)

Cat. No.:	HY-P700078AF
Synonyms:	Galectin; Lgals2; Beta-gActoside-binding lectin L-14-II; GAL2; Gal-2; galectin 2; Galectin2; Galectin-2; HL14gal-2; Lactose-binding lectin 2; lectin, gActoside-binding, soluble, 2; MGC75071; S-Lac lectin 2
Species:	Human
Source:	E. coli
Accession:	P05162 (T2-E132)
Gene ID:	3957
Molecular Weight:	Approximately 15.5 kDa

PROPERTIES

AA Sequence	T G E L E V K N M D M K P G S T L K I T G S I A D G T D G F V I N L G Q G T D K L N L H F N P R F S E S T I V C N S L D G S N W G Q E Q R E D H L C F S P G S E V K F T V T F E S D K F K V K L P D G H E L T F P N R L G H S H L S Y L S V R G G F N M S S F K L K E
Biological Activity	Measured by its ability to agglutinate human red blood cells. The ED_{50} for this effect is <20 μg/mL
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 7.4, trehalose.
Endotoxin Level	<0.1 EU per 1 μg of the protein by the LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US;may vary elsewhere.

DESCRIPTION

Background	The Galectin-2 (LGALS2) protein demonstrates an affinity for binding beta-galactosides, yet its precise physiological function remains unclear. Structurally, it forms homodimers, indicating a fundamental organization in its functional state. While the specific role of LGALS2 in cellular processes is yet to be elucidated, its ability to bind to beta-galactosides suggests potential involvement in recognizing and interacting with specific carbohydrate structures. The homodimeric arrangement further implies a cooperative mechanism in its functional activity, emphasizing the need for further exploration to unveil the intricate biological significance of LGALS2 in cellular contexts and molecular interactions.

Caution: Product has not been fully validated for medical applications. For research use only.

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