

## Animal-Free Galectin-4/LGALS4 Protein, Human (His)

<b>Cat. No.:</b>	HY-P72638AF
<b>Synonyms:</b>	Galectin-4; Gal-4; L36LBP; Antigen NY-CO-27; LGALS4
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	P56470 (A2-I323)
<b>Gene ID:</b>	3960
<b>Molecular Weight:</b>	Approximately 36.8 kDa

### PROPERTIES

#### AA Sequence

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A Y V P A P G Y Q P   T Y N P T L P Y Y Q   P I P G G L N V G M   S V Y I Q G V A S E
H M K R F F V N F V   V G Q D P G S D V A   F H F N P R F D G W   D K V V F N T L Q G
G K W G S E E R K R   S M P F K K G A A F   E L V F I V L A E H   Y K V V V N G N P F
Y E Y G H R L P L Q   M V T H L Q V D G D   L Q L Q S I N F I G   G Q P L R P Q G P P
M M P P Y P G P G H   C H Q Q L N S L P T   M E G P P T F N P P   V P Y F G R L Q G G
L T A R R T I I I K   G Y V P P T G K S F   A I N F K V G S S G   D I A L H I N P R M
G N G T V V R N S L   L N G S W G S E E K   K I T H N P F G P G   Q F F D L S I R C G
L D R F K V Y A N G   Q H L F D F A H R L   S A F Q R V D T L E   I Q G D V T L S Y V
Q I
  
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**Biological Activity** Measured by its ability to agglutinate human red blood cells. The ED<sub>50</sub> for this effect is <8 µg/mL.

**Appearance** Lyophilized powder.

**Formulation** Lyophilized from a solution containing 1X PBS, pH 7.4.

**Endotoxin Level** <0.1 EU per 1 µg of the protein by the LAL method.

**Reconstitution** It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH<sub>2</sub>O.

**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

Galectin-4/LGALS4 is a lactose-binding galectin protein that exhibits an affinity for a variety of sugars. It has been implicated in the formation of adherens junctions, indicating its potential role in cellular adhesion processes. Notably, this protein

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functions as a monomer, emphasizing its independent molecular state and suggesting that it may exert its biological effects through individual interactions rather than as part of a larger complex.

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

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