

Animal-Free Galectin-12 Protein, Human (His)

Cat. No.:	HY-P700074AF
Synonyms:	LGALS12; GAL12; GRIP1; Gal-12; Galectin-related inhibitor of proliferation
Species:	Human
Source:	E. coli
Accession:	Q96DT0 (S2-S336)
Gene ID:	85329
Molecular Weight:	Approximately 38.4 kDa

PROPERTIES

AA Sequence

S Q P S G G R A P G	T R I Y S W S C P T	V M S P G E K L D P	I P D S F I L Q P P
V F H P V V P Y V T	T I F G G L H A G K	M V M L Q G V V P L	D A H R F Q V D F Q
C G C S L C P R P D	I A F H F N P R F H	T T K P H V I C N T	L H G G R W Q R E A
R W P H L A L R R G	S S F L I L F L F G	N E E V K V S V N G	Q H F L H F R Y R L
P L S H V D T L G I	F G D I L V E A V G	F L N I N P F V E G	S R E Y P A G H P F
L L M S P R L E V P	C S H A L P Q G L S	P G Q V I I V R G L	V L Q E P K H F T V
S L R D Q A A H A P	V T L R A S F A D R	T L A W I S R W G Q	K K L I S A P F L F
Y P Q R F F E V L L	L F Q E G G L K L A	L N G Q G L G A T S	M N Q Q A L E Q L R
E L R I S G S V Q L	Y C V H S		

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 ddH₂O.

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-12 Protein exhibits the capability to bind lactose, highlighting its affinity for specific carbohydrate moieties. Additionally, there is a suggestion that Galectin-12 may play a role in the apoptosis of adipocytes, implying its potential involvement in the regulation of adipose tissue homeostasis and cellular processes related to programmed cell death within this context. The binding specificity of Galectin-12 to lactose suggests a targeted influence on carbohydrate-mediated

interactions, emphasizing its potential significance in the modulation of cellular functions related to adipocyte biology.

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

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