

Animal-Free Galectin-9/LGALS9 Protein, Human (His)

Cat. No.:	HY-P700082AF
Synonyms:	G-CSF; CSF-3; MGI-1G; Pluripoietin; Molgramostin; Sargramostim
Species:	Human
Source:	E. coli
Accession:	O00182-2 (A2-T323)
Gene ID:	3965
Molecular Weight:	Approximately 36.7 kDa

PROPERTIES

AA Sequence	<pre> A F S G S Q A P Y L S P A V P F S G T I Q G G L Q D G L Q I T V N G T V L S S S G T R F A V N F Q T G F S G N D I A F H F N P R F E D G G Y V V C N T R Q N G S W G P E E R K T H M P F Q K G M P F D L C F L V Q S S D F K V M V N G I L F V Q Y F H R V P F H R V D T I S V N G S V Q L S Y I S F Q P P G V W P A N P A P I T Q T V I H T V Q S A P G Q M F S T P A I P P M M Y P H P A Y P M P F I T T I L G G L Y P S K S I L L S G T V L P S A Q R F H I N L C S G N H I A F H L N P R F D E N A V V R N T Q I D N S W G S E E R S L P R K M P F V R G Q S F S V W I L C E A H C L K V A V D G Q H L F E Y Y H R L R N L P T I N R L E V G G D I Q L T H V Q T </pre>
Biological Activity	Measured by its ability of the immobilized protein to support the adhesion of Jurkat cells. The ED ₅₀ for this effect is <3 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 ₂ 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-9/LGALS9 protein functions as an eosinophil chemoattractant, actively participating in the recruitment and
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migration of eosinophils, crucial immune cells involved in inflammatory responses. Moreover, it serves as an angiogenesis inhibitor, contributing to the regulation of blood vessel formation and impacting vascular processes. In its role as a regulatory modulator of immune responses, Galectin-9/LGALS9 suppresses interferon-gamma (IFNG) production by natural killer cells, exerting control over immune signaling pathways (By similarity).

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

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