

LRG1 Protein, Human (HEK293, Fc-His)

Cat. No.:	HY-P70175
Synonyms:	rHuLeucine-rich alpha-2-glycoprotein/LRG1, Fc-His; Leucine-rich alpha-2-glycoprotein; LRG and LRG1
Species:	Human
Source:	HEK293
Accession:	AAH70198.1 (V36-Q347)
Gene ID:	116844
Molecular Weight:	65-90 kDa

PROPERTIES

AA Sequence	V T L S P K D C Q V F R S D H G S S I S C Q P P A E I P G Y L P A D T V H L A V E F F N L T H L P A N L L Q G A S K L Q E L H L S S N G L E S L S P E F L R P V P Q L R V L D L T R N A L T G L P P G L F Q A S A T L D T L V L K E N Q L E V L E V S W L H G L K A L G H L D L S G N R L R K L P P G L L A N F T L L R T L D L G E N Q L E T L P P D L L R G P L Q L E R L H L E G N K L Q V L G K D L L L P Q P D L R Y L F L N G N K L A R V A A G A F Q G L R Q L D M L D L S N N S L A S V P E G L W A S L G Q P N W D M R D G F D I S G N P W I C D Q N L S D L Y R W L Q A Q K D K M F S Q N D T R C A G P E A V K G Q T L L A V A K S Q
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 200 mM NaCl, 10% Glycerol, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>Leucine-rich alpha-2-glycoprotein (encoded by LRG1), an approximately 50 kDa glycoprotein, is a serum biomarker of inflammatory bowel disease and various autoimmune diseases. LRG1 can bind to TGF-β1 (K_D: 2.32 µM) and modulate the TGFβ pathway, and promotes ECM integrity by activating the TGF-beta signaling pathway in fibroblasts^[1]. LRG1 is usually secreted by neutrophils undergoing differentiation and by liver cells^[2].</p> <p>Besides, LRG1 enhances TGFβ1-smad1/5/8 signaling in the presence of endoglin in endothelial cells. LRG1 also promotes</p>
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TGFβ1-induced apoptosis^[3].

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA