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## Recombinant human LRG1 protein

Catalog Number: ATGP3755

#### PRODUCT INFORMATION

### **Expression system**

Baculovirus

#### **Domain**

36-347aa

#### UniProt No.

P02750

#### **NCBI Accession No.**

NP 443204

#### **Alternative Names**

Leucine-rich alpha-2-glycoprotein, LRG1, HMFT1766, LRG

### PRODUCT SPECIFICATION

#### **Molecular Weight**

35.4 kDa (321aa)

#### Concentration

0.5mg/ml (determined by absorbance at 280nm)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

#### **Purity**

> 95% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

#### Tag

His-Tag

## **Application**

SDS-PAGE

## **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

#### **Description**

LRG1, also known as leucine-rich alpha-2-glycoprotein, is a member of leucine-rich repeat (LRR) family. It is neutrophilic expressed during granulocyte differentiation. It has been shown to be involved in protein-protein interaction, signal transduction, and cell adhesion and development. It binds directly to the TGF-beta accessory receptor endoglin, which, in the presence of TGF-beta1, results in promotion of the pro-angiogenic Smad1/5/8



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signaling pathway. It promotes proliferation and inhibits apoptosis in colorectal cancer cells via RUNX1 activation. It is a key physiological regulator of dendrite complexity of hippocampal pyramidal neurons. It physically interacts with TrkB and attenuates BDNF signaling. Recombinant human LRG1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

#### **Amino acid Sequence**

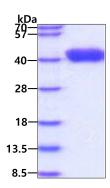
<ADP>VTLSPKD CQVFRSDHGS SISCQPPAEI PGYLPADTVH LAVEFFNLTH LPANLLQGAS KLQELHLSSN GLESLSPEFL RPVPQLRVLD LTRNALTGLP PGLFQASATL DTLVLKENQL EVLEVSWLHG LKALGHLDLS GNRLRKLPPG LLANFTLLRT LDLGENQLET LPPDLLRGPL QLERLHLEGN KLQVLGKDLL LPQPDLRYLF LNGNKLARVA AGAFQGLRQL DMLDLSNNSL ASVPEGLWAS LGQPNWDMRD GFDISGNPWI CDQNLSDLYR WLQAQKDKMF SQNDTRCAGP EAVKGQTLLA VAKSQ

#### **General References**

Wang X., et al. (2013) Nature. 499:306-311. O Donnell LC., et al. (2002) J Leukoc Biol. 72:478-485.

#### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

