

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

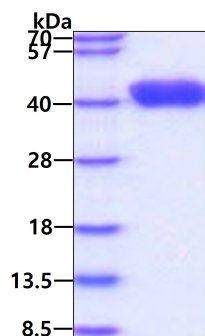
<ADP>VTLSPKD CQVFRSDHGS SISCQPPAEI PGYLPADTVH LAVEFFNLTH LPANLLQGAS KLQELHLSSN GLESLSPEFL RPVPQLRVLD LTRNALTGLP PGLFQASATL DTLVLKENQL EVLEVSWLHG LKALGHLDLS GNRLRKLPPG LLANFTLLRT LDLGENQLET LPPDLLRGPL QLERLHLEGN KLQVLGKDLL LPQPDRLRYLF LNGNKLARVA AGAFQGLRQL DMLDLSNNSL ASVPEGLWAS LGQPNWDMRD GFDISGNPWI CDQNLSDLYR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

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.