

Recombinant human LINGO-1 protein

Catalog Number: ATGP3011

PRODUCT INFORMATION

Expression system

E.coli

Domain

241-337aa

UniProt No.

Q96FE5

NCBI Accession No.

NP_116197

Alternative Names

Leucine-rich repeat and immunoglobulin-like domain-containing nogo receptor-interacting protein1, LERN1, LRRN6A, uNQ201

PRODUCT SPECIFICATION

Molecular Weight

15.1 kDa (133aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

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

Lingo1 also known as Leucine-rich repeat and immunoglobulin-like domain-containing nogo receptor-interacting protein1. LINGO-1 is primarily expressed in neuronal tissue, and most abundantly in cortex. It has been implicated in the inhibition of axon regeneration through a ternary complex formed with NgR1 (ligand-binding subunit) and p75 (signal transducing subunit). The inhibitory action is achieved through RhoA-GTP upregulation in response to the presence of MOG, MAG or Nogo-66 in the central nervous system. LINGO-1 also inhibits

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oligodendrocyte precursor differentiation and myelination, by a mechanism that also involves activation of RhoA, but which apparently does not require 75 or Ngr1. Recombinant human LINGO1 protein, was expressed in E. coli

Amino acid Sequence

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSLKVL EISHWPYLDT MTPNCLYGLN LTSLSITHCN
LTAVPYLAVR HLVYLRFLNL SYNPISTIEG SMLHELLRLQ EIQLVGGQLA VVEPYAFRGL NYL

General References

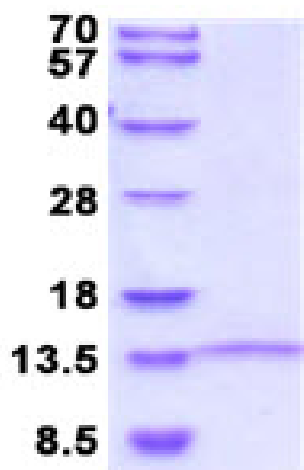
Mi S., et al (2004). Nat. Neurosci. 7:221-228.

Mi S., et al (2005). Nat. Neurosci. 8:745-751.

DATA

SDS-PAGE

(kDa)



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

15% SDS-PAGE (3ug)