

AR51831PU-S

Human LINGO1 (241-370, His-tag) - Purified

Alternate names:

LERN1, LINGO1, LRRN6A, Leucine-rich repeat and immunoglobulin-domain containing protein 1, Leucine-rich repeat and immunoglobulin-like domain-containing nogo receptor-interacting protein 1, Leucine-rich repeat neuronal protein 1, Leucine-rich repeat neuronal protein 6A

Quantity:

0.1 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

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 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

Uniprot ID:

[Q96FE5](#)

NCBI:

[NP_116197](#)

GenelD:

[84894](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.

Description:

AA Sequence:

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

Molecular weight: 15.1 kDa (133aa)

Storage:

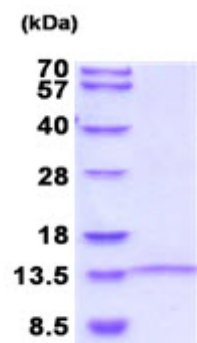
Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Mi S., et al (2004). Nat. Neurosci. 7:221-228. Mi S., et al (2005). Nat. Neurosci. 8:745-751.

Pictures:



15% SDS-PAGE (3ug)