

Product information

LINGO1, 241-337 aa

Human, His-tagged, Recombinant, *E.coli*

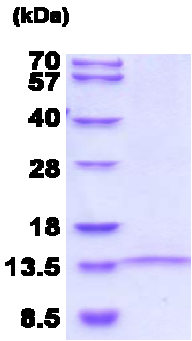
Cat. No. IBATGP3011

Full name: Leucine-rich repeat and immunoglobulin-like domain-containing nogo receptor-interacting protein1

Synonym: LERN1, LRRN6A, UNQ201,

NCBI Accession No.: NP_116197

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 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*

<p>Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol</p> <p>Molecular Weight: 15.1kDa (133aa)</p> <p>Purity: > 90% by SDS - PAGE</p> <p>Concentration: 1mg/ml (determined by Bradford assay)</p>	 <p>(kDa)</p> <p>70 57 40 28 18 13.5 8.5</p> <p>15% SDS-PAGE (3ug)</p>
<p>Sequences of amino acids:</p> <p>MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSLKVL EISHWPYLDT MTPNCLYGLN LTSLSITHCN LTAVPYLAVR HLVYLRFLNL SYNPSTIEG SMLHELLRLQ EIQLVGGQLA VVEPYAFRGL NYL</p>	

General references:

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

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

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.

Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.