

Recombinant Human LINGO1 Protein, His-tagged

Cat. No. LINGO1-001H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human LINGO1 (a non-glycosylated polypeptide chain containing 133 amino acids (241-337 a.a)) fused to a 36 amino acid His-tag at N-terminus was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	241-337 a.a.
Description	Leucine Rich Repeat And Ig Domain Containing 1, also known as Lingo1 is primarily expressed in neuronal tissue, and most abundantly in the cortex. In addition, Lingo 1 is involved in the inhibition of axon regeneration all the way through a ternary complex formed with NgR1 (ligand-binding subunit) and p75 (signal transducing subunit). The inhibitory action is accomplished through RhoA-GTP upregulation in response to the presence of MOG, MAG or Nogo-66 in the central nervous system. Furthermore, LINGO-1 inhibits oligodendrocyte precursor differentiation as well as myelination, by a mechanism which also involves activation of RhoA, however it appears that it does not require 75 or NgR1.
Molecular Mass	15.1kDa
AA Sequence	MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSLKVLEISHWPYLDTMTP NCLYGLNLTSLSITHCNLTAVPYLAVRHLVYLRFLNLSYNPISTIEGSMLHELLRLQEIQ LVGGQLAVVEPYAFRGLNYL

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Purity	Greater than 90.0% as determined by SDS-PAGE.
Storage	Store at 4 centigrade if entire vial will be used within 2-4 weeks. Store, frozen at -20 centigrade for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Concentration	1mg/mL
Storage Buffer	20mM Tris-HCl buffer (pH 8.0) and 10% glycerol

GENE INFORMATION

Gene Name	LINGO1
Official Symbol	LINGO1 leucine rich repeat and Ig domain containing 1 [Homo sapiens (human)]
Synonyms	Leucine Rich Repeat And Ig Domain Containing 1; LRRN6A; Leucine-Rich Repeat And Immunoglobulin Domain-Containing Protein 1; Leucine-Rich Repeat Neuronal Protein 1; Leucine Rich Repeat Neuronal 6A; LERN1; Leucine-Rich Repeat And Immunoglobulin-Like Domain-Containing Nogo Receptor-Interacting Protein 1; Leucine-Rich Repeat Neuronal Protein 6A; UNQ201; LERN1; Leucine-rich repeat and immunoglobulin-like domain-containing nogo receptor-interacting protein 1; LINGO1; leucine rich repeat and Ig domain containing 1; ERN1
Gene ID	84894
mRNA Refseq	NM_001301186
Protein Refseq	NP_001288115

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MIM	609791
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UniProt ID	Q96FE5
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