



Recombinant Mouse Leucine-rich repeat and immunoglobulin-like domain-containing nogo receptor-interacting protein 1 (Lingo1), partial

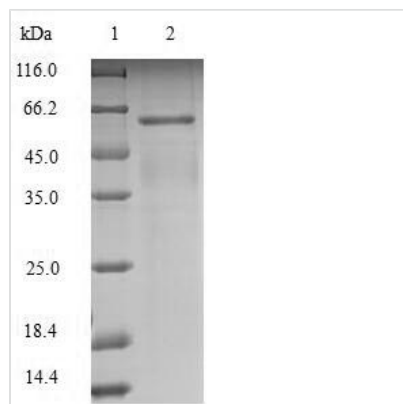
Product Code	CSB-EP880476MO
Relevance	Functional component of the Nogo receptor signaling complex (RTN4R/NGFR) in RhoA activation responsible for some inhibition of axonal regeneration by myelin-associated factors. Is also an important negative regulator of oligodendrocyte differentiation and axonal myelination . Acts in conjunction with RTN4 and RTN4R in regulating neuronal precursor cell motility during cortical development. ¹ Publication
Abbreviation	Recombinant Mouse Lingo1 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9D1T0
Alias	Leucine-rich repeat neuronal protein 1Leucine-rich repeat neuronal protein 6A
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	PPRCECSAQDRAVLCHRKRFVAVPEGIPTETRLLDLGKNRIKTLNQDEFASFP HLEEELELNENIVSAVEPGAFNNLFNRLTLGLRSNRLKLIPLGVFTGLSNLTKLDIS ENKIVILLDYMFQDLYNLKSLEVGDNDLVYISHRAFSGLSLEQLTLEKCNLTSI PTEALSHLHGLIVRLRLHLNINAIIRDYSFKRLYRLKVLEISHWPYLDTMTPNCLY GLNLTSLSITHCNLTAVPYLAVRHLVYLRFLNLSYNPIGTIEGSMLHELLRLQEIQ LVGGQLAVVEPYAFRGLNYLRVLNVSGNQLTTLLEESAFHSVGNLETILDSNPL ACDCRLLWVFRRRWRLNFNRRQQPTCATPEFVQGKEFKDFPDVLLPNYFTCR RAHIRDRKAQQVFVDEGHTVQFVCRADGDPPPAILWLSPRKHLVSAKSNLGR TVFPDGTLEVRYAQVQDNGTYLCIAANAGGNDSMPAHLHVRSYSPDWPHQP NKTFAFISNQPGEGEANSTRATVPFPFDIKTLIIAT
Research Area	Others
Source	E.coli
Target Names	Lingo1
Expression Region	37-555aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged


Mol. Weight

62.9kDa

Protein Length

Extracellular Domain

Image


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The expression region of this recombinant Mouse Lingo1 covers amino acids 37-555. This Lingo1 protein is expected to have a theoretical molecular weight of 62.9 kDa. This protein is generated in a e.coli-based system. The N-terminal 6xHis tag was fused into the coding gene segment of Lingo1, making it easier to detect and purify the Lingo1 recombinant protein in the later stages of expression and purification.

The mouse leucine-rich repeat and immunoglobulin-like domain-containing Nogo receptor-interacting protein 1 (Lingo1) is a transmembrane protein involved in regulating neuronal function. Lingo1 interacts with the Nogo receptor and plays a role in modulating myelination, neurite outgrowth, and synaptic plasticity. It is predominantly expressed in the nervous system, influencing neural development and regeneration. Research on Lingo1 encompasses studies on its involvement in neurodegenerative diseases, such as multiple sclerosis and Alzheimer's disease, where dysregulation may contribute to pathological processes. Understanding the functions of Lingo1 provides insights into the molecular mechanisms governing neural plasticity and offers potential therapeutic avenues for neurological disorders.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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