9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

LINGO1 Human

Leucine Rich Repeat And Ig Domain Containing 1 Human Recombinant
RCP1250

Product Overview

Name	LINGO1 Human

Description

Leucine Rich Repeat And Ig Domain Containing 1 Human Recombinant

Accession (Primary)	Q96FE5

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.

Introduction

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.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

LINGO1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0) and 10% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C 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.

Purity

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Greater than 90.0% as determined by SDS-PAGE.

Amino acid sequence

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGS LKVL EISHWPYLDT MTPNCLYGLN LTSLSITHCN

LTAVPYLAVR HLVYLRFLNL SYNPISTIEG SMLHELLRLQ EIQLVGGQLA VVEPYAFRGL NYL.

Precautions

LINGO1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q96FE5)