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32-13297: LINGO1 Human

Alternative Name :	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.

Description

Source: Escherichia Coli.
Sterile Filtered colorless solution.
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.
LINGO1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 133 amino acids (241-337 a.a) and having a molecular mass of 15.1kDa. LINGO1 is fused to a 36 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Product Info

Amount :	5 µg / 20 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	LINGO1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0) and 10% glycerol.
Storage condition :	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.
Amino Acid :	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSLKVL EISHWPYLDT MTPNCLYGLN LTSLSITHCN LTAVPYLAVR HLVYLRFLNL SYNPISTIEG SMLHELLRLQ EIQLVGGQLA VVEPYAFRGL NYL.

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