
Product Data Sheet

Product Name: LINGO1 Human
 Cat. No.: GP23822
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Leucine Rich Repeat And Ig Domain Containing 1; LRRN6A; Leucine-RichRepeat And Immunoglobulin Domain-Containing Protein 1; Leucine-Rich RepeatNeuronal Protein 1; Leucine Rich Repeat Neuronal 6A; LERN1; Leucine-RichRepeat And Immunoglobulin-Like Domain-Containing Nogo Receptor-InteractingProtein 1; Leucine-Rich Repeat Neuronal Protein 6A; UNQ201; LERN1; Leucine-richrepeat and immunoglobulin-like domain-containing nogo receptor-interactingprotein 1.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSLKVL EISHPYLDL MTPNCLYGLN LTSLSITHCN LTAVPYLAVRHLVYLRFLNL SYNPSTIEG SMLHELLRLQ EIQLVGGQLA VVEPYAFRGL NYL.		
Formulation	LINGO1 protein solution (1mg/ml) containing 20mM Tris-HClbuffer (pH 8.0) and 10% glycerol.		

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.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

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.

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