
Product Data Sheet

Product Name: DNALI1 Human
 Cat. No.: GP23330
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Dynein; Axonemal; Light Intermediate Chain 1; DJ423B22.5(Axonemal Dynein Light Chain (Hp28)); Inner Dynein Arm Light Chain Axonemal;hp28; P28; Homolog Of Chlamydomonas; Axonemal Dynein Light Intermediate Polypeptide 1; dj423B22.5; Inner Dynein Arm;Homolog Of Chlamydomonas; Dynein; Axonemal; Light Intermediate Polypeptide 1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMVTANKA HTGQGSCWVA TLASAMIPPA DSKKYDTPV LVSRNTEKRSPKARLLKVSP QQPGPSGSAP QPPKTKLPST PCVPDPTKQA EEILNAILPP REWVEDTQLW IQQVSSTPSTRMDVVHLQEQ LDLKLOQRQA RETGICPVRR ELYSQCFDEL IREVTINCAE RGLLLLRVRDEIRMTIAAYQ TLYESSVAFG MRKALQAEQG KSDMERKIAE LETEKRDLER QVNEQKAKCE ATEKRESERRQVEEKKHNEE IQFLKRTNQQ LKAQLEGIIA PPK		
Formulation	DNALI1 protein solution (1mg/ml)containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol, 1mM DTT and0.1mM PMSF.		

Introduction

DyneinAxonemal Light Intermediate Chain 1 also known as DNALI1 belongs to the inner dynein arm light chain family. DNALI1 take a dynamic role in flagellarmotility. DNALI1 is the human homolog of the Chlamydomonas inner dynein arm gene, p28. The exact function of DNALI1 is not known yet, on the other hand, it is a potential candidate for immotile ciliasyndrome. In addition it has been found that the following diseases: primary ciliary dyskinesia, and huntington's disease have been associated with DNALI1. Ultrastructural defects of the inner dynein arms are seen in patients with ICS. Immotile mutant strains of Chlamydomonas, biflagellated algae, show similar defects.

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). Please avoid freeze thaw cycles.

Background

DNALI1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 303 amino acids (1-280 a.a) and having a molecular mass of 34.2kDa. DNALI1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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