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

DNALI1 Human

Dynein Axonemal Light Intermediate Chain 1 Human Recombinant
RCP0673

Product Overview

Name	DNALI1 Human

Description

Dynein Axonemal Light Intermediate Chain 1 Human Recombinant

Accession (Primary)	O14645

Synonyms

Dynein, Axonemal, Light Intermediate Chain 1, DJ423B22.5 (Axonemal Dynein Light Chain (Hp28)), Inner Dynein Arm Light Chain Axonemal, hp28, P28, Homolog Of Clamydomonas, Axonemal Dynein Light Intermediate Polypeptide 1, dJ423B22.5, Inner Dynein Arm, Homolog Of Clamydomonas, Dynein, Axonemal, Light Intermediate Polypeptide 1.

Introduction

Dynein Axonemal Light Intermediate Chain 1 also known as DNALI1 belongs to the inner dynein arm light chain family. DNALI1 take a dynamic role in flagellar motility. 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 cilia syndrome. 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.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered clear solution.

Formulation

DNALI1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol, 1mM DTT and 0.1mM PMSF.

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). Please avoid freeze thaw cycles.

Purity

Greater than 90.0% as determined by SDS-PAGE.

Amino acid sequence

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MGSSHHHHHH SSGLVPRGSH MGS MVTANKA HTGQGSCWVA TLASAMIPPA DSLLKYDTPV LVSRNTEKRS PKARLLKVSP QQPGPSGSAP QPPKTKLPST PCVPDPTKQA EEILNAILPP REWVEDTQLW IQQVSSTPST RMDVVHLQEQ LDLKLQQRQA RETGICPVRR ELYSQCFDEL IREVTINCAE RGLLLLRVRD EIRMTIAAYQ TLYESSVAFG MRKALQAEQG KSDMERKIAE LETEKRDLER QVNEQKAKCE ATEKRESERR QVEEKKHNEE IQFLKRTNQQ LKAQLEGIIA PKK

Precautions

DNALI1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O14645)