

Recombinant Human dynein, axonemal, light intermediate chain 1, His-tagged

Cat. No. DNALI1-327H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DNALI1, 1-280 aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-280 a.a.
Description	DNALI1 is the human homolog of the Chlamydomonas inner dynein arm gene, p28. The precise function of this gene is not known, however, it is a potential candidate for immotile cilia syndrome (ICS). Ultrastructural defects of the inner dynein arms are seen in patients with ICS. Immotile mutant strains of Chlamydomonas, a biflagellated algae, exhibit similar defects. Recombinant human DNALI1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT, 0.1mM PMSF
Molecular Mass	34.2 kDa (303aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMVTANKA HTGQGSCWVA TLASAMIPPA DSLLKYDTPV LVS RNTEKRS PKARLLKVSP QPGPGSGSAP QPPKTKLPST PCVPDPTKQA EEILNAILPP REWVEDTQLW IQQVSSTPST RMDVVHLQEQ

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LDLKLQQRQA RETGICPVRR ELYSQCFDEL IREVTINCAE RGLLLLRVRD
 EIRMTIAAYQ TLYESSVAFG MRKALQAEQG KSDMERKIAE LETEKRDLER
 QVNEQKAKCE ATEKRESERR QVEEKKHNEE IQFLKRTNQQ LKAQLEGIIA PKK

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [DNALI1 dynein, axonemal, light intermediate chain 1 \[Homo sapiens \]](#)

Official Symbol DNALI1

Synonyms DNALI1; dynein, axonemal, light intermediate chain 1; dynein, axonemal, light intermediate polypeptide 1; axonemal dynein light intermediate polypeptide 1; dJ423B22.5; dJ423B22.5 (axonemal dynein light chain (hp28)); hp28; inner dynein arm; homolog of clamydomonas; P28; inner dynein arm light chain, axonemal; inner dynein arm, homolog of clamydomonas;

Gene ID [7802](#)

mRNA Refseq [NM_003462](#)

Protein Refseq [NP_003453](#)

MIM [602135](#)

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UniProt ID	O14645
Chromosome Location	1p35.1
Pathway	Huntingtons disease, organism-specific biosystem; Huntingtons disease, conserved biosystem;
Function	microtubule motor activity;

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