

DNALI1, 1-280 aa, Human, His tag, E.coli

Cat.NO.: TP01909

3th Edition

Synonyms: axonemal dynein light intermediate polypeptide 1, dJ423B22.5, hp28, P28

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 Weight: 34.2 kDa (303aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSMVTANKAHTGQGSCWVATLASAMIPPADSLLKYDTPVLVSRNTEKRSPKAR
LLKVSPQQPGPSGAPQPPKTKLPSTPCVPDPTKQAEELNAILPPREWVEDTQLWQQVSSTPSTRMDVVHLQEQ
LDLKLQQRQARETGICPVRRELYSQCFDELIREVTINCAERGLLLLRVRDEIRMTIAAYQTLYESVAFGMRKALQAE
QGKSDMERKIAELETERDLERQVNEQKAKCEATEKRESERRQVEEKKHNEEQFLKRTNQQLKAQLEGIIAPKK

Purity: > 95% by HPLC

Concentration: 1mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

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