

# Recombinant human DYNLL2 protein

Catalog Number: ATGP1087

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-89aa

### UniProt No.

Q96FJ2

### NCBI Accession No.

NP\_542408

### Alternative Names

Dynein light chain 2 LC8-type 2, Dynein light chain 2, LC8-type 2, Dlc2, DNCL1B, DLC8b

## PRODUCT SPECIFICATION

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### Molecular Weight

12.5 kDa (109aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 0.2M NaCl

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Dynein light chain 2, cytoplasmic, also known DYNLL2, is a large protein complex composed of six distinct subunits and is responsible for most intracellular movement toward the minus ends of microtubules. Dyneins are multisubunit, high molecular weight ATPases that interact with microtubules to generate force by converting the chemical energy of ATP into the mechanical energy of movement. DYNLL2 is a highly conserved eukaryotic hub protein with dozens of binding partners and various functions beyond being a subunit of dynein and myosin Va motor proteins. Recombinant human DYNLL2 protein, fused to His-tag at N-terminus, was expressed in E. coli

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and purified by using conventional chromatography techniques.

### Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MSDRKAVIKN ADMSEDMQQD AVDCATQAME KYNIEKDIAA YIKKEFDKKY NPTWHCIVGR  
NFGSYVTHET KHFIYFYLQ VAILLFKSG

### General References

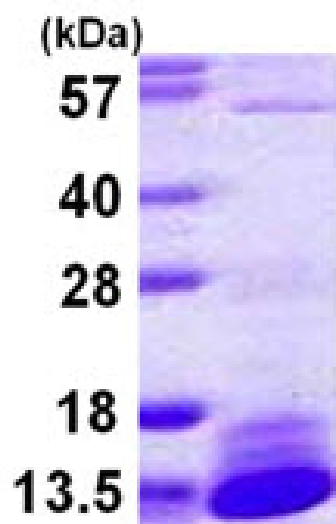
Radnai L., et al. (2010) J Biol chem. 285(49):38649-57.

Lu J., et al. (2005) Biochem Biophys Res Commun. 331(1):153-8.

## DATA

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### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)