

Recombinant human DYNLT1 protein

Catalog Number: ATGP1035

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-113aa

UniProt No.

P63172

NCBI Accession No.

NP_006510

Alternative Names

Dynein light chain Tctex-type 1, CW-1, TCTEL1, tctex-1

PRODUCT SPECIFICATION

Molecular Weight

14.6 kDa (133aa) 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, 0.1M NaCl

Purity

> 95% 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

Description

Dynein light chain Tctex-type 1, also known as DYNLT1, belongs to the dynein light chain Tctex-type family. DYNLT1 acts as one of several non-catalytic accessory components of the cytoplasmic dynein 1 complex that are thought to be involved in linking dynein to cargos and to adapter proteins that regulate dynein function. Cytoplasmic dynein is the major motor protein complex responsible for minus-end, microtubule-based motile processes. Each dynein complex consists of 2 heavy chains that have ATPase and motor activities, plus a group of accessory polypeptides. DYNLT1 is a dynein light chain involved in cargo binding. Recombinant human

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DYNLT1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MEDYQAAEET AFVVDEVSNI VKEAIESAIG GNAYQHSKVN QWTTNVVEQT
LSQLTKLGKP FKYIVTCVIM QKNGAGLHTA SSCFWDSSTD GSCTVRWENK TMYCIVSAFG LSI

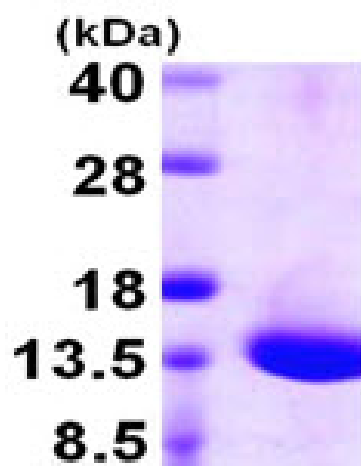
General References

Asai D J., et al. (2004) J Eukaryot Microbiol. 51:23-29.

He Y., et al. (2005) J Cell Biol. 168:697-703.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)