

Recombinant human DNAL4 protein

Catalog Number: ATGP1065

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-105aa

UniProt No.

O96015

NCBI Accession No.

NP_005731

Alternative Names

Dynein light chain 4 axonemal, Dynein light chain 4, axonemal, PIG27

PRODUCT SPECIFICATION

Molecular Weight

14.1 kDa (125aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

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

Description

DNAL4 is a component of the dynein motor complex in cells which converts the chemical energy contained in ATP into the mechanical energy of movement. Dynein transports various cellular cargo by 'walking' along cytoskeletal microtubules towards the minus-end of the microtubule, which is usually oriented towards the cell center. Recombinant human DNAL4 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MGETEGKKDE ADYKRLQTFP LVRHSDMP EE MRVETMELCV TACEKFSNNN
ESAAKMIKET MDKKFGSSWH VVIGEGFGFE ITHEVKNLLY LYFGGTLAVC VWKCS

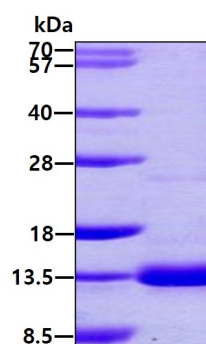
General References

Rual JF. et al. (2005) Nature. 437: 1173-8.

Iwasaki M. et al. (2005) Blood. 105 : 784-93.

DATA

SDS-PAGE



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