

Recombinant human PIN/DYNLL1 protein

Catalog Number: ATGP0744

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-89aa

UniProt No.

P63167

NCBI Accession No.

NP_003737.1

Alternative Names

Dynein light chain 1 cytoplasmic, DLC1, DLC8, DNCL1, DNCLC1, hdlc1, LC8, LC8a, MGC126137, MGC126138, PIN, 8 kDa dynein light chain, Dynein light chain LC8-type 1, Protein inhibitor of neuronal nitric oxide synthase

PRODUCT SPECIFICATION

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 0.2M NaCl, 1mM DTT, 10% glycerol

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

DYNLL1, also known as DLC8 or PIN (protein inhibitor of neuronal nitric oxide synthase), has been identified as a protein that interacts with NOS1 resulting in NOS1 inhibition. Binding of this protein destabilizes NOS1 (Neuronal nitric oxide synthase) dimer, a conformation necessary for activity, and it may regulate numerous biologic processes through its effects on nitric oxide synthase activity. DYNLL1 is a ubiquitously expressed protein that exhibits high expression in testis and moderate expression in brain. Recombinant human DYNLL1 protein, fused

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

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MCDRKAVIKN ADMSEEMQQD SVECATQALE KYNIEKDIAA HIKKEFDKKY
NPTWHCIVGR NFGSYVTHET KHFIYFYLGG VAILLFKSG

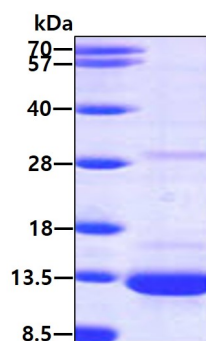
General References

Nakano H., et al. (2010) J Biol Chem. 285(14):10841-9.

Kubota T., et al. (2009) J Virol. 83(13):6952-6.

DATA

SDS-PAGE



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