# Recombinant Human Dynein, Light Chain, LC8-type 1, His-tagged

**Cat. No.** DYNLL1-2836H **Lot. No.** (See product label)

## SPECIFICATION

| | |
|---|---|
| **Product Overview** | Recombinant human DYNLL1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW = 12.5 kDa (109aa) confirmed by MALDI-TOF. |
| **Species** | Human |
| **Source** | E.coli |
| **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. |
| **Sequences Of Amino Acids** | MGSSHHHHHH SSGLVPRGSH MCDRKAVIKN ADMSEEMQQD SVECATQALE KYNIEKDIAA HIKKEFDKKY NPTWHCIVGR NFGSYVTHET KHFIYFYLGQ VAILLFKSG |
| **Purity** | > 90% by SDS – PAGE. |
| **Form** | Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.2M NaCl, 1mM DTT, 10% glycerol. |

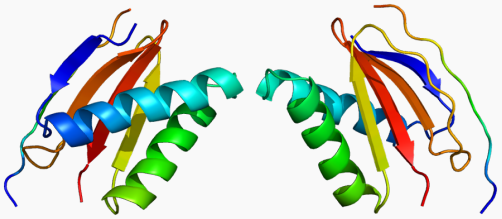
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|---|---|
| **Concentration** | 1 mg/ml (determined by Bradford assay). |
| **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. |

## GENE INFORMATION

| | |
|---|---|
| **Gene Name** | DYNLL1 dynein, light chain, LC8-type 1 [ Homo sapiens ] |
| **Synonyms** | DYNLL1; dynein, light chain, LC8-type 1; LC8; PIN; DLC1; DLC8; LC8a; DNCL1; hdlc1; DNCLC1; MGC126137; MGC126138; dynein light chain 1, cytoplasmic; 8 kDa dynein light chain; cytoplasmic dynein light polypeptide; dynein, cytoplasmic, light polypeptide 1; protein inhibitor of neuronal nitric oxide synthase; Dynein light chain LC8-type 1 |
| **Gene ID** | 8655 |
| **mRNA Refseq** | NM_001037494 |
| **Protein Refseq** | NP_001032583 |
| **MIM** | 601562 |
| **UniProt ID** | P63167 |
| **Chromosome Location** | 12q24.23 |
| **Pathway** | Vasopressin-regulated water reabsorption |
| **Function** | enzyme binding; microtubule motor activity; motor activity; nitric-oxide synthase |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|---|---|
| | regulator activity; protein C-terminus binding; protein binding; protein domain specific binding; protein homodimerization activity |
| |  |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA