

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

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

SPECIFICATION

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| 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(Neural 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 KHFIYFYLQG VAILLFKSG |
| Purity | > 90% by SDS – PAGE. |
| Form | Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.2M NaCl, 1mM DTT, 10% glycerol. |

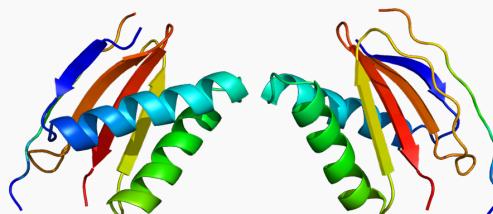
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| Concentration | 1 mg/ml (determined by Bradford assay). |
| Storage | Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles. |
| GENE INFORMATION | |
| 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 |

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



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