

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(Neurotional 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 NFGSYVTHER 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.

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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

