

# Recombinant Human DYNLL1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** DYNLL1-5556H    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

DYNLL1 MS Standard C13 and N15-labeled recombinant protein (NP\_001032584) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

### Species

Human

### Source

HEK293

### Description

Cytoplasmic dyneins are large enzyme complexes with a molecular mass of about 1,200 kD. They contain two force-producing heads formed primarily from dynein heavy chains, and stalks linking the heads to a basal domain, which contains a varying number of accessory intermediate chains. The complex is involved in intracellular transport and motility. The protein described in this record is a light chain and exists as part of this complex but also physically interacts with and inhibits the activity of neuronal nitric oxide synthase. Binding of this protein destabilizes the 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. Alternate transcriptional splice variants have been characterized.

### Molecular Mass

10.4 kDa

### AA Sequence

MCDRKAVIKNADMSEEMQQDSVECATQALEKYNIEKDIAAHIKKEFDKKNPTWHCI  
VGRNFGSYVTHEKHFYFYLGQVAILLFKSGTRTRPLEQKLISEEDLAANDILDYKDD  
DDKV

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<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>Storage</b>	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
<b>Concentration</b>	50 µg/mL as determined by BCA
<b>Storage Buffer</b>	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

<b>Gene Name</b>	DYNLL1 dynein light chain LC8-type 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	DYNLL1
<b>Synonyms</b>	DYNLL1; dynein, light chain, LC8-type 1; DNCL1, dynein, cytoplasmic, light polypeptide 1; dynein light chain 1, cytoplasmic; DLC1; DLC8; hdlc1; LC8; PIN; 8 kDa dynein light chain; cytoplasmic dynein light polypeptide; dynein, cytoplasmic, light polypeptide 1; protein inhibitor of neuronal nitric oxide synthase; LC8a; DNCL1; DNCLC1; MGC126137; MGC126138;
<b>Gene ID</b>	8655
<b>mRNA Refseq</b>	NM_001037495
<b>Protein Refseq</b>	NP_001032584
<b>MIM</b>	601562

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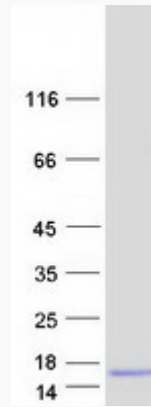
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UniProt ID

P63167

SDS-PAGE



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