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

Cat. No. DYNLL1-5427H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DYNLL1 MS Standard C13 and N15-labeled recombinant protein (NP_003737) 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	MCDRKAVIKNADMSEEMQQDSVECATQALEKYNIEKDIAAHIKKEFDKKYNPTWHCI VGRNFGSYVTHETKHFIYFYLGQVAILLFKSGTRTRPLEQKLISEEDLAANDILDYKDD DDKV

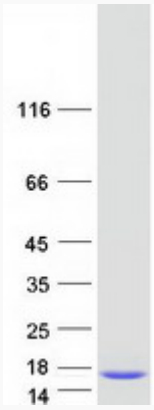
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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration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

GENE INFORMATION

Gene Name	DYNLL1 dynein light chain LC8-type 1 [Homo sapiens (human)]
Official Symbol	DYNLL1
Synonyms	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;
Gene ID	8655
mRNA Refseq	NM_003746
Protein Refseq	NP_003737
MIM	601562

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UniProt ID	P63167
SDS-PAGE	

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