

Recombinant Human Dynein Light Chain 2, LC8-type2, His-tagged

Cat. No. DYNLL2-3547H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DYNLL2(1-89aa) produced in E.coli contains His tag at N-terminus and is purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-89 a.a.
Description	Recombinant Human DYNLL2(1-89aa), His-tagged is a large protein complex composed of six distinct subunits and is responsible for most intracellular movement toward the minus ends of microtubules. Dyneins are multisubunit, high molecular weight ATPases that interact with microtubules to generate force by converting the chemical energy of ATP into the mechanical energy of movement. DYNLL2 is a highly conserved eukaryotic hub protein with dozens of binding partners and various functions beyond being a subunit of dynein and myosin Va motor proteins. Recombinant human DYNLL2 protein, fused to His-tag at N-terminus, was expressed in E.coli and have a total molecular mass of 12.5 kDa (109aa), confirmed by MALDI-TOF.
Purity	> 90% by SDS – PAGE.
Formulation	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 0.2M NaCl.

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Molecular Weight	12.5 kDa (109aa), confirmed by MALDI-TOF.
Concentration	1mg/ml (determined by Bradford assay).
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MSDRKAVIKN ADMSEDMQQD AVDCATQAME KYNIEKDIAA YIKKEFDKKY NPTWHCIVGR NFGSYVTHET KHFIYFYLQ VAILLFK- SG
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. Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	DYNLL2 dynein, light chain, LC8-type 2 [Homo sapiens]
Synonyms	dynein, light chain, LC8-type 2; DLC8b; RSPH22; DLC2; MGC17810; radial spoke 22 homolog; Dlc2; dynein light chain 2, cytoplasmic; DNCL1B; Dynein light chain LC8-type 2; 8 kDa dynein light chain b; DYNLL2
Gene ID	140735
mRNA Refseq	NM_080677
Protein Refseq	NP_542408
MIM	608942
UniProt ID	Q96FJ2
Chromosome Location	17q22

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Pathway	Activation of BH3-only proteins; Activation of BMF and translocation to mitochondria; Apoptosis; Intrinsic Pathway for Apoptosis; Vasopressin-regulated water reabsorption
Function	cytoskeletal protein binding; motor activity; protein binding
PDBrendering based on 1cmi.	

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