Recombinant Human Clathrin, Light Chain A, His-tagged

Cat. No. CLTA-6787H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanCLTA protein, fused to His-tag at N-terminus, was expressed in E.coli andpurified by using conventional chromatography techniques
Species	Human
Source	E.coli
Description	Clathrin, lightchain A, also known as CLTA, belongs to the clathrin family. Clathrin is alarge, soluble protein composed of heavy and light chains. It is a majorcytosolic coat protein in pits and vesicles originating from the plasmamembrane and the trans-Golgi network. In receptor-mediated endocytosis,receptor proteins are captured by Clathrin-coated vesicles. CLTA is one oftwo clathrin light chain proteins which are believed to function asregulatory elements
Form	Liquid. In 20mMTris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol
Molecular Weight	26.2 kDa (242aa),confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)
Purity	> 90% by SDS -PAGE
Concentration	1 mg/ml (determinedby Bradford assay)
Sequences of aminoacids	MGSSHHHHHHSSGLVPRGSH MGSHMAELDP FGAPAGAPGG PALGNGVAGA GE EDPAAAFL AQQESEIAGI ENDEAFAILDGGAPGPQPHGEPPGGPDAVDGVMNGEY

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	YQE SNGPTDSYAA ISQVDRLQSE PESIRKWREE QMERLEALDA NSRKQEAEWK EKAIKELEEWYARQDEQLQKTKANNRAAEEAFVNDIDESS PGTEWERVAR LCDFN PKSSK QAKDVSRMRS VLISLKQAPL VH
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
Officialsymbol	CLTA

GENE INFORMATION

Gene Name	CLTA clathrin, light chain A[Homo sapiens]
Synonyms	clathrin,light chain A; OTTHUMP00000215626; clathrin, light polypeptide (Lca);OTTHUMP00000215628; Lca; clathrin light chain A; OTTHUMP00000021365;OTTHUMP00000021366; OTTHUMP00000215627
Gene ID	1211
mRNA Refseq	NM_001833
Protein Refseq	NP_001824
MIM	118960
UniProt ID	P09496
Chromosome Location	9p13
Pathway	Arf1pathway, organism-specific biosystem; Axon guidance, organism-

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	specificbiosystem; Bacterial invasion of epithelial cells, organism-specificbiosystem; Bacterial invasion of epithelial cells, conserved biosystem; C-MYBtranscription factor network, organism-specific biosystem; Clathrin derivedvesicle budding, organism-specific biosystem
Function	molecular_function;peptide binding; structural molecule activity

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