

---

## Product Data Sheet

---

Product Name: CLTB Human  
 Cat. No.: GP23181  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Clathrin light chain B; Lcb; CLTB.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMADDFGF FSSSESGAPE AAEDPAAAF LAQGESEIAG IENDEGFGAP AGSHAAPAQP GPTSGAGSED MGTTVNGDVF QEANGPADGY AAIAQADRLT QEPESIRKWR EEQRKRLQEL DAASKVTEQE WREKAKKDLE EWNQRQSEV EKNKINNRAS EEFVKESKE ETPGTEWEKV AQLCDFNPKS SKQCKDVSRL RSVLMSLKQT PLSR.		
Formulation	CLTB protein solution (1mg/ml) containing 20mM Tris-HCl buffer, pH8.0, 10% glycerol, 0.2mM PMSF and 100mM NaCl.		

### Introduction

Clathrin light chain B (CLTB) is a member of the clathrin light chain family. Clathrin is a protein that has a key role in the formation of coated vesicles. CLTB functions as the key structural component of the lattice-type cytoplasmic face of coated pits and vesicles which capture certain macromolecules during receptor-mediated endocytosis. CLTB forms a triskelion form comprised of 3 clathrin heavy chains and 3 light chains. When the triskelia interact they form a polyhedral pattern which encircles the vesicle. CME (Clathrin-mediated endocytosis) controls numerous cellular physiological processes such as the internalization of growth factors and receptors, entry of pathogens, and synaptic transmission.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

## Product Data Sheet

---

CLTB Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 234 amino acids (1-211 a.a) and having a molecular mass of 25.6kDa (Molecular size on SDS-PAGE will appear higher).CLTB is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

***Caution: Product has not been fully validated for medical applications. For research use only.***

***Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com***

***Address: 10292 Central Ave. #205, Montclair, CA, USA***