

---

**Product Data Sheet**


---

Product Name: CMBL Human  
 Cat. No.: GP21487  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Carboxymethylenebutenolidase homolog; CMBL; JS-1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSHPMANEAY PCPCDIGHRL EYGGLGREVQ VEHKAYVTK SPVDAGKAVI VIQDIFGWQL PNTRYIADMI SNGNGYTTIVP DFFVGQEPWD PSGDWSIFPE WLKTRNAQKI DREISAILKY LKQQCHAQKI GIVGFCWGGT AVHHLMMKYS EFRAGVSVYG IVKDESDIYN LKNPTLFIFA ENDVVIPLKD VSLLTQKLKE HCKVEYQIKT FSGQTHGFVH RKREDCSPAD KPYIDEARRN LIEWLNKYM.		
Formulation	The CMBL solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 10% glycerol and 1mM EDTA.		

**Introduction**

Carboxymethylenebutenolidase homolog (CMBL) is a cysteine hydrolase of the diene lactone hydrolase family which is highly expressed in the liver cytosol. CMBL is the human homolog of Pseudomonas diene lactone hydrolase, which is a protein that participates in the bacterial halocatechol degradation pathway. CMBL which preferentially cleaves cyclic esters activates medoxomil-ester prodrugs in which the medoxomil moiety is coupled with an oxygen atom. CMBL is inhibited by PCMB (p-chloromercuribenzoate) and is encoded by a gene which maps to human chromosome 5p15.2. CMBL can also activate beta-lactam antibiotics faropenem medoxomil and lenampicillin. CMBL is widely expressed, with the highest levels in the liver, followed by the kidney, small intestine and the colon.

**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%

**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

---

HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

CMBL Human Recombinant produced in E. coli is a single polypeptide chain containing 269 amino acids (1-245) and having a molecular mass of 30.6kDa. CMBL is fused to a 24 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**