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## Product Data Sheet

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Product Name: CRABP1 Human  
 Cat. No.: GP23214  
 Batch No.: 1

### Product Data

|                     |  |                    |                         |
|---------------------|--|--------------------|-------------------------|
| Purity              | >98%   | Source             | Escherichia Coli.       |
| Physical Appearance | solid  | Shipping Condition | Shipped with Ice Packs. |
| Synonyms            | Cellular retinoic acid-binding protein 1; Cellular retinoic acid-binding protein I; CRABP-I; CRABP1; RBP5; CRABP; CRABPI.                              |                    |                         |
| Amino Acid Sequence | MPNFAGTWKM RSENFDELL KALGVNAMLK KVAVAAASKP HVEIRQDGDQ FYIKTSTTVR TTEINFKVG EGFEEETVDGR KCRSLATWEN ENKIHCTQTL LEGDGPKEYW TRELANDELI LTFGADDVVC TRIYVRE. |                    |                         |
| Formulation         | The CRABP1 protein solution contains 20mM Tris-HCl buffer (pH8.0) and 10% glycerol.  |                    |                         |

### Introduction

CRABP1 is a member of special carrier proteins for members of the vitamin A family. It is believed that CRABP1 has an essential role in retinoic acid-mediated differentiation and proliferation processes. Though, CRABP1 is structurally similar to the cellular retinol-binding proteins, it binds only retinoic acid at specific sites within the nucleus, which may contribute to vitamin A-directed differentiation in epithelial tissue. CRABP1 is constitutively expressed and is thought to have different functions in the cell than the related CRABP2. CRABP1 forms a beta-barrel structure which accommodates hydrophobic ligands in its interior. Loss of CRABP1 function as a result of hypermethylation of its promoter leads to pathogenesis of papillary thyroid carcinoma. Furthermore, frequent methylation-associated silencing of CRABP1 is linked to esophageal squamous-cell carcinoma.

### 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.

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

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

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### Background

CRABP1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 137 amino acids and having a molecular mass of 15.5kDa. The CRABP1 is purified by proprietary chromatographic techniques.

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