

# Human CRABP1 / RBP5 Protein



Sino Biological  
Biological Solution Specialist

Catalog Number: 14511-HNAE

## General Information

### Gene Name Synonym:

CRABP; CRABP-I; CRABPI; RBP5

### Protein Construction:

A DNA sequence encoding human CRABP1 (AAH22069.1)(Met1-Glu137) was expressed.

**Source:** Human

**Expression Host:** E. coli

## QC Testing

**Purity:** > 95 % as determined by SDS-PAGE

### Endotoxin:

Please contact us for more information.

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Met

### Molecular Mass:

The recombinant human CRABP1 consists of 137 amino acids and predicts a molecular mass of 15.5 KDa. It migrates as an approximately 14 KDa band in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from sterile 20mM tris , 10% glycerol, pH 8.0.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

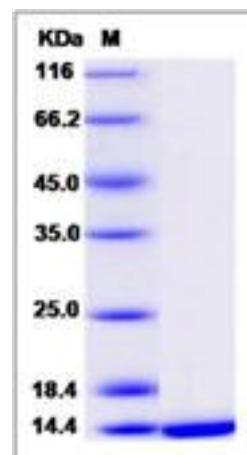
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

CRABP1 is a specific binding protein for a vitamin A family member. It is thought that CRABP1 plays an important role in retinoic acid-mediated differentiation and proliferation processes. CRABP1 is structurally similar to the cellular retinol-binding proteins, but binds only retinoic acid at specific sites within the nucleus, which may contribute to vitamin A-directed differentiation in epithelial tissue. It forms a beta-barrel structure which accommodates hydrophobic ligands in its interior.

## References

1.Wu Q. et al., 2007, Mol Cancer. 6: 45. 2.Tanaka K. et al., 2007, Oncogene. 26 (44): 6456-68. 3.Lind GE. et al., 2007, Cell Oncol. 28 (5-6): 259-72.

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