

## ACBD7 Protein, Human, Recombinant (His)

### General Information

Synonyms:	acyl-CoA binding domain containing 7;ACBD7;bA455B2.2;RP11-455B2.6
Protein Construction:	A DNA sequence encoding the mature form of human ACBD7 (Q8N6N7) (Met1-Ile88) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His
Species:	Human
Expression Host:	E. coli
Accession:	Q8N6N7
Molecular Weight:	11.6 kDa (predicted); 10 kDa (reducing conditions)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

**Reconstitution:**  
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

**Stability & Storage:**

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

**Shipping:**

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

ACBD7, acyl-CoA-binding domain-containing protein 7, is a small (1 Kd) protein that contains 1 ACB (acyl-CoA-binding) domain. The ACB domain consists of four alpha-helices arranged in a bowl shape with a highly exposed acyl-CoA-binding site. The ligand is bound through specific interactions with residues on the protein, most notably several conserved positive charges that interact with the phosphate group on the adenosine-3'phosphate moiety, and the acyl chain is sandwiched between the hydrophobic surfaces of CoA and the protein. Other

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proteins containing an ACB domain include: ACBP (acyl-CoA-binding protein), ACBD3, ACBD4, ACBD5, ACBD6.

### Reference

Rose TM. et al., 1992, Proc Natl Acad Sci. 89 (23): 11287-91.

Van Aalten DM. et al., 2001, J Mol Biol. 309 (1): 181-92.

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