

# Recombinant strain 168 thiO

## Protein Product Manual

### 1. Product Basic Information

**Product No.:** REP08444

**Protein Name:** Acetyl-Coa Acyltransferase 1 (thiO)

**Aliases:** acetyl-CoA acyltransferase 1

**UniProt ID:** O31616

**UniProt Link:** <https://www.uniprot.org/uniprotkb/O31616/entry>

**Species Source:** Bacillus subtilis (strain 168)

**Expression System:** E.coli

**Protein Length:** Full Length (1-369aa)

**Molecular Weight:** 56.9kDa

**Protein Tag:** N-terminal 6xHis-SUMO-tagged

### 2. Amino Acid Sequence (1-369aa)

MKRHYEAVVIGGGIIGSAIAYYLAKENKNTALFESGTMGGRTTSAAAGMLGAHAECE  
ERDAFFDFAMHSQRLYKGLGEELYALSGVDIRQHNGGMFKLAFSEEDVLQLRQMD  
DLDSVSWYSKEEVLEKEPYASGDIFGASFIQDDVHVEPYFVCKAYVKAAMKLGAEIF  
EHTPVLHVERDGEALFIKTPSGDVWANHVVVASGVWSGMFFKQLGLNNAFLPVKG  
ECLSVWNDDIPLTKTLYHDHCYIVPRKSGRLVVGATMKPGDWSETPDLGGLESVM  
KKAKTMLPAIQNMKVDRFWAGLRPGTKDGPYIGRHPEDSRILFAAGHFRNGILLAP  
ATGALISDLIMNKEVNQDWLHAFRDRKEAVQI

### 3. Storage Buffer

**Liquid Delivery Form:** Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

**Lyophilized Powder Delivery Form:** Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.

### 4. Storage Conditions



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Upon receipt, store the product at  $-20^{\circ}\text{C}$  or  $-80^{\circ}\text{C}$ . It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

## 5. Product Description

This product is a recombinant strain 168 thiO full length protein (1-369aa) expressed in E.coli. The protein is with 6xHis-SUMO tag at the N-terminus, which facilitates protein purification, detection and identification. thiO, also known as acetyl-CoA acyltransferase 1, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

## 6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.