

## fatty-acid synthase

Cat. No. EXWM-2266

Lot. No. (See product label)

### Introduction

**Description** The animal enzyme is a multi-functional protein catalysing the reactions of EC 2.3.1.38 [acyl-carrier-protein] S-acetyltransferase, EC 2.3.1.39 [acyl-carrier-protein] S-malonyltransferase, EC 2.3.1.41 3-oxoacyl-[acyl-carrier-protein] synthase, EC 1.1.1.100 3-oxoacyl-[acyl-carrier-protein] reductase, EC 4.2.1.59 3-hydroxyacyl-[acyl-carrier-protein] dehydratase, EC 1.3.1.39 enoyl-[acyl-carrier-protein] reductase (NADPH, Re-specific) and EC 3.1.2.14 oleoyl-[acyl-carrier-protein] hydrolase. cf. EC 2.3.1.86, fatty-acyl-CoA synthase.

**Synonyms** FASN (gene name)

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 2.3.1.85

**CAS No.** 9045-77-6

**Reaction**  $\text{acetyl-CoA} + n \text{ malonyl-CoA} + 2n \text{ NADPH} + 2n \text{ H}^+ = \text{a long-chain fatty acid} + (n+1) \text{ CoA} + n \text{ CO}_2 + 2n \text{ NADP}^+$

**Notes** This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

### Storage and Shipping Information

**Storage** Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.