

## 2-oxoglutarate carboxylase

Cat. No. EXWM-5818

Lot. No. (See product label)

### Introduction

**Description** A biotin-containing enzyme that requires Mg<sup>2+</sup> for activity. It was originally thought that this enzyme was a promoting factor for the carboxylation of 2-oxoglutarate by EC 1.1.1.41, isocitrate dehydrogenase (NAD<sup>+</sup>), but this has since been disproved. The product of the reaction is unstable and is quickly converted into isocitrate by the action of EC 1.1.1.41.

**Synonyms** oxalosuccinate synthetase; carboxylating factor for ICDH (incorrect); CFI; OGC

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 6.4.1.7

**CAS No.** 60382-75-4

**Reaction** ATP + 2-oxoglutarate + HCO<sub>3</sub><sup>-</sup> = ADP + phosphate + oxalosuccinate

**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.