

carboxybiotin decarboxylase

Cat. No. EXWM-5309

Lot. No. (See product label)

Introduction

Description The integral membrane protein MadB from the anaerobic bacterium *Malonomonas rubra* is a component of the multienzyme complex EC 4.1.1.89, biotin-dependent malonate decarboxylase. The free energy of the decarboxylation reaction is used to pump Na⁺ out of the cell. The enzyme is a member of the Na⁺-translocating decarboxylase family, other members of which include EC 4.1.1.3 (oxaloacetate decarboxylase) and EC 4.1.1.41 (methylmalonyl-CoA decarboxylase).

Synonyms MadB; carboxybiotin protein decarboxylase

Product Information

Form Liquid or lyophilized powder

EC Number EC 7.2.4.1 (Formerly EC 4.3.99.2)

Reaction a carboxybiotinyl-[protein] + n Na⁺_{in} + H⁺_{out} = CO₂ + a biotinyl-[protein] + n Na⁺_{out} (n = 1-2)

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.