Creative Enzymes®

carboxybiotin decarboxylase

Cat. No. EXWM-5309

Lot. No. (See product label)

Introduction

Description	The integral membrane protein MadBfrom 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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.