

C-terminal processing peptidase

Cat. No. EXWM-4097

Lot. No. (See product label)

Introduction

Description Proteolytic processing of the D1 protein of photosystem II is necessary to allow the

light-driven assembly of the tetranuclear manganese cluster, which is responsible for photosynthetic water oxidation. The recognition of the substrate is mediated by a PDZ domain, a small protein module that promotes protein-protein interactions by binding to internal or C-terminal sequences of their partner proteins. Type

example of peptidase family S41.

Synonyms CtpA gene product (Synechocystis sp.); photosystem II D1 protein processing

peptidase; protease Re; tail-specific protease; Tsp protease

Product Information

Form Liquid or lyophilized powder

EC Number EC 3.4.21.102

CAS No. 216484-75-2, 92480-11-0

Reaction The enzyme shows specific recognition of a C-terminal tripeptide, Xaa-Yaa-Zaa, in

which Xaa is preferably Ala or Leu, Yaa is preferably Ala or Tyr, and Zaa is preferably Ala, but then cleaves at a variable distance from the C-terminus. A typical cleavage is -Ala-Ala-Arg-Ala-Ala-Lys-Glu-Asn-Tyr-Ala-Leu-Ala-Ala. In the plant chloroplast, the enzyme removes the C-terminal extension of the D1

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polypeptide of photosystem II

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.

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