

cyanophycin synthase (L-aspartate-adding)

Cat. No. EXWM-5745

Lot. No. (See product label)

Introduction

Description Requires Mg2+ for activity. Both this enzyme and EC 6.3.2.30, cyanophycin synthase (L-arginine-adding),

are required for the elongation of cyanophycin, which is a protein-like cell inclusion that is unique to cyanobacteria and acts as a temporary nitrogen store. Both enzymes are found in the same protein but have different active sites. Both L-Asp and L-Arg must be present before either enzyme will display

significant activity.

Synonyms CphA (ambiguous); CphA1 (ambiguous); CphA2 (ambiguous); cyanophycin synthetase (ambiguous); multi-

L-arginyl-poly-L-aspartate synthase (ambiguous)

Product Information

Form Liquid or lyophilized powder

EC Number EC 6.3.2.29

CAS No. 131554-17-1

Reaction ATP + [L-Asp(4-L-Arg)]n + L-Asp = ADP + phosphate + <math>[L-Asp(4-L-Arg)]n-L-Asp

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

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

Tel: 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com

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