

6-aminohexanoate-oligomer exohydrolase

Cat. No. EXWM-4434

Lot. No. (See product label)

Introduction

Description The enzyme is involved in degradation of nylon-6 oligomers. It degrades linear oligomers of 6-aminohexanoate with a degree of polymerization of 2-20 by exo-type cleavage, removing residues sequentially from the N-terminus. Activity decreases with the increase of the polymerization number of the oligomer. cf. EC 3.5.1.117, 6-aminohexanoate-oligomer endohydrolase and EC 3.5.2.12, 6-aminohexanoate-cyclic-dimer hydrolase.

Synonyms 6-aminohexanoate-dimer hydrolase; nyIB (gene name); 6-aminohexanoic acid oligomer hydrolase (ambiguous); N-(6-aminohexanoyl)-6-aminohexanoate amidohydrolase; nylon-6 hydrolase (ambiguous)

Product Information

Form Liquid or lyophilized powder

EC Number EC 3.5.1.46

CAS No. 75216-15-8

Reaction (1) $[N-(6\text{-aminohexanoyl})]_n + H_2O = [N-(6\text{-aminohexanoyl})]_{n-1} + 6\text{-aminohexanoate}$; (2) $N-(6\text{-aminohexanoyl})-6\text{-aminohexanoate} + H_2O = 2\text{ 6-aminohexanoate}$

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.