Creative Enzymes®

phenylalanine/tyrosine ammonia-lyase

Cat. No. EXWM-5285

Lot. No. (See product label)

Introduction

Description	This enzyme is a member of the aromatic amino acid lyase family, other members of which are EC 4.3.1.3 (histidine ammonia-lyase), EC 4.3.1.23 (tyrosine ammonia-lyase) and EC 4.3.1.24 (phenylalanine ammonia-lyase). The enzyme from some monocots, including maize, and from the yeast Rhodosporidium toruloides, deaminate L-phenylalanine and L-tyrosine with similar catalytic efficiency. The enzyme contains the cofactor 3,5-dihydro-5-methylidene-4H-imidazol-4-one (MIO), which is common to this family. This unique cofactor is formed autocatalytically by cyclization and dehydration of the three amino-acid residues alanine, serine and glycine.
Synonyms	PTAL; bifunctional PAL

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 4.3.1.25
Reaction	(1) L-phenylalanine = trans-cinnamate + NH3; (2) L-tyrosine = trans-p-hydroxycinnamate + NH3
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 ℃.