

tyrosine ammonia-lyase

Cat. No. EXWM-5283

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 4.3.1.24 (phenylalanine ammonia-lyase) and EC 4.3.1.25 (phenylalanine/tyrosine ammonia-lyase). 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. The enzyme is far more active with tyrosine than with phenylalanine as substrate, but the substrate specificity can be switched by mutation of a single amino acid (H89F) in the enzyme from the bacterium *Rhodobacter sphaeroides*.

Synonyms

TAL; tyrase; L-tyrosine ammonia-lyase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 4.3.1.23

CAS No.

1030840-68-6

Reaction

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