

histidine ammonia-lyase

Cat. No. EXWM-5289

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 4.3.1.23 (tyrosine 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. This enzyme catalyses the first step in the degradation of histidine and the product, urocanic acid, is further metabolized to glutamate.

Synonyms histidase; histidinase; histidine α -deaminase; L-histidine ammonia-lyase

Product Information

Form Liquid or lyophilized powder

EC Number EC 4.3.1.3

CAS No. 9013-75-6

Reaction L-histidine = urocanate + 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.