Creative Enzymes®

Recombinant Human 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.

Product Information

Species	Human
Source	E.coli
Form	Liquid
EC Number	EC 4.3.1.3
CAS No.	9013-75-6
Molecular Weight	72.5 kDa
Purity	Greater than 80% as determined by SDS-PAGE.
Buffer	50 mM Tris-HCl, pH 8.0, 8 M urea
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 at -80°C