

## 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

<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Form</b>	Liquid
<b>EC Number</b>	EC 4.3.1.3
<b>CAS No.</b>	9013-75-6
<b>Molecular Weight</b>	72.5 kDa
<b>Purity</b>	Greater than 80% as determined by SDS-PAGE.
<b>Buffer</b>	50 mM Tris-HCl, pH 8.0, 8 M urea
<b>Reaction</b>	L-histidine = urocanate + NH <sub>3</sub>
<b>Notes</b>	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

<b>Storage</b>	Store at -80°C
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