

## Sequencing Grade Chymotrypsin from Human, Recombinant

Cat. No. NATE-1894

Lot. No. (See product label)

### Introduction

#### Description

Chymotrypsin is a recombinant serine endopeptidase expressed in E.coli, purified with HPLC, the gene sequence is the same as human chymotrypsin. Recombinant chymotrypsin hydrolyzes at the carboxyl side of aromatic amino acids residues: Tyr, Phe and Trp. Cleavage may also be observed, but at a lower rate, at Leu and Met. Chymotrypsin activity is optimal in pH 7.0–9.0. The sequencing grade human chymotrypsin can be used alone or in combination with other proteases to produce protein digests for peptide mapping applications or protein identification by peptide mass fingerprinting or MS/MS spectral matching. It is suitable for digestion reactions in-solution or in-gel.

#### Applications

1) Protein digests for peptide mapping applications or protein identification by peptide mass fingerprinting or MS/MS spectral matching. It is suitable for digestion reactions in-solution or in-gel. 2) This sequencing grade enzyme can be used alone or in combination with other proteases to produce.

#### Synonyms

EC 3.4.21.1; chymotrypsins A and B; alpha-chymar ophth; avazyme; chymar; chymotest; enzeon; quimar; quimotrase; alpha-chymar; alpha-chymotrypsin A; alpha-chymotrypsin; Chymotrypsin;  $\alpha$ -Chymotrypsin; Sequencing Grade Recombinant Chymotrypsin; Sequencing Grade Chymotrypsin

### Product Information

<b>Species</b>	Human
<b>Source</b>	E. coli
<b>Form</b>	Lyophilized
<b>EC Number</b>	EC 3.4.21.1
<b>CAS No.</b>	9004-07-3
<b>Molecular Weight</b>	26,950 Da
<b>Purity</b>	> 98% by HPLC
<b>Activity</b>	>1500 unit/mg protein

### Usage and Packaging

#### Preparation Instructions

For dissolving buffer, it is 50mM HAC, to get the terminal concentration of 0.5 $\mu$ g/ $\mu$ l, used once time or stored below -20°C. For the digestion buffer, in general, it is 100mM NH<sub>4</sub>HCO<sub>3</sub> containing 5mM CaCl<sub>2</sub>, at 30°C, to dissolve the aim protein and then added chymotrypsin (in general, W:W=1:20-1:100). Self digestion may occur if temperatures above 37°C.

### Storage and Shipping Information

<b>Storage</b>	Recombinant Chymotrypsin lyophilized should be stored under 2°C–8°C in sealed
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## Storage

Recombinant Chymotrypsin lyophilized should be stored under -20°C to -80°C in sealed container. It is stable within 24 months. After dissolved, it should be stored under -20°C. It is stable within 24 months and above 90% activity remained after 3 times repeated freezing and thawing.