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; α-Chymotrypsin; Sequencing Grade Recombinant Chymotrypsin; Sequencing Grade Chymotrypsin

Product Information

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

Usage and Packaging

Preparation Instructions	For disolving buffer, it is 50mM HAC,to get the terminal concentration of 0.5μg/μl, used once time or stored below -20°C. For the digestion buffer, in general, it is 100mM NH_4HCO_3 containing 5mM $CaCl_2$, 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

Storage	Recombinant Chymotrypsin lyophilized should be stored under 2°C-8°C in sealed

Storage	Recombinant Chymotrypsin lyophilized should be stored under 2°C-8°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.