Creative Enzymes®

Chymotrypsin from Human, Recombinant

Cat. No. NATE-1890

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.
Applications	Hydrolysis of proteins by chymotrypsin alone or in combination with other proteases. Suitable for peptide mapping, fingerprinting, and sequence analysis.
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

Product Information

Species	Human
Source	E. coli
Form	White lyophilized
EC Number	EC 3.4.21.1
CAS No.	9004-07-3
Molecular Weight	26,950 Da
Purity	> 95% by HPLC
Activity	>1000 unit/mg protein
Optimum pH	7.0–9.0
Unit Definition	One unit will hydrolyze 1.0 μmole of BTEE per min at pH 7.8 at 25 °C.

Usage and Packaging

Reconstitution	Prepare 1-10mg/ml with 1ml 50mM HAc, used within 2 days, or stored below -20°C after repacked.

Storage and Shipping Information

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.