

Bioactive

Chymotrypsin Alpha, 3x

Catalog # P5211 Size 250 mg

Specification

Product Description	Lyophilized. Dialyzed. An activation product of a 3x crystallized zymogen.
Biological function	Chymotrypsin is a serine endopeptidase activated after proteolysis by trypsin. It preferentially catalyzes the hydrolysis of peptide bonds involving L-isomers of tyrosine, phenylalanine and tryptophan. It also readily acts upon amides and esters of susceptible amino acids.
Host	Bovine
Theoretical MW (kDa)	25.6
Form	Lyophilized
Preparation Method	Native protein purified from Bovine Pancreas
Activity	≥ 45 units per mg protein. One Unit hydrolyzes one micromole of benzoyl-L-tyrosine ethyl ester per minute at 25°C, pH 7.8 in the presence of calcium. An activity of 45 units per mg using the above definition, is the equivalent of 10,000 optical density or 1330 N.F. units per mg using ATEE as a substrate. 1 BTEE unit = 29.5 USP/NF units.
Recommend Usage	Chymotrypsin Assay; Sequence analysis; Peptide synthesis; Peptide mapping; Peptide fingerprinting.
Storage Instruction	Store at 4°C.
Note	This product has been dialyzed against 1 mM HCl to remove autolysis products and low molecular weight contaminants.

Applications

- Enzyme Activity