

Recombinant Human- α Chymotrypsin, Lyophilized

Product information

| Product No. | Size | Activity |
|--------------|-------------|----------|
| YJ-O-154-20 | 20 μ g | >70U/mg |
| YJ-O-154-50 | 50 μ g | >70U/mg |
| YJ-O-154-100 | 100 μ g | >70U/mg |

Product description

α -Chymotrypsin is a serine protease capable of hydrolyzing the peptide bonds at the carboxyl - terminal ends of tyrosine, tryptophan, and phenylalanine. Ca^{2+} acts as both an activator and a stabilizer for α -chymotrypsin. This enzyme is inhibited by diisopropyl fluorophosphate (DFP), phenylmethanesulfonyl fluoride (PMSF), N-tosyl-L-phenylalanine chloromethyl ketone (TPCK), chymotrypsin inhibitor, aprotinin, α_1 -antitrypsin, α_2 -macroglobulin, as well as 10 mM Cu^{2+} and Hg^{2+} . Our recombinant human α -chymotrypsin is expressed in *Pichia pastoris*. It is obtained through multiple-step purification processes, ensuring freedom from contamination by other proteases.

- Unit definition: One unit (U) is defined as the amount of enzyme that hydrolyzes 1.0 μ mol of BTEE per minute under the conditions of pH 7.8 and 25 $^{\circ}$ C.
- Reconstitution Solution: 1mM HCl

Product components

| Components | Size1 | Size2 | Size3 |
|---|------------|------------|-------------|
| Recombinant Human- α Chymotrypsin, Lyophilized | 20 μ g | 50 μ g | 100 μ g |

Transportation and storage

- Storage: This product should be stored at 2-8 $^{\circ}$ C for at least 12 months.
- Transportation: Dry ice or ice pack.

Product application

- Peptide mapping analysis
- Protein identification

Usage (for reference only)

- It is recommended to centrifuge this product at 100-200g for 2 minutes before use. Then, carefully open the lid and add 1 mM HCl for reconstitution to a final concentration of 1 mg/ml. After that, close the tube lid and invert the tube up-and-

down or shake it to mix thoroughly. After reconstitution, this product can be stored at 4°C or - 20°C for at least 3 months.

Try to avoid repeated freeze-thaw cycles after reconstitution.

- After reconstitution, this product can be directly applied to peptide mapping analysis or protein identification. The recommended addition ratio is 1:20-1:200, and the digestion is carried out at 25°C for 2-18 h.

Precaution

- After reconstitution, try to avoid repeated freeze-thaw cycles for this product;
- Please wear lab coat and disposable gloves when using;
- This product should not be used directly for clinical diagnosis and treatment.