

High-Quality Trypsin and Chymotrypsin for Scientific and Industrial Use

Trypsin



Description

Trypsin is a type of serine proteases used in a variety of biotechnological process. The enzyme cleaves peptide chains mainly at the carboxyl side of the amino acid lysine or arginine. The enzymatic degradation step is commonly referred to as trypsin proteolysis or trypsinization.

Product Information

Cat No. BIO-1011	CAS No. 9002-07-7
EC No. EC 3.4.21.4	Appearance: White freeze-dried powder

Applications

- Trypsin is a pharmaceutical raw material for clinical surgery and internal medicine. It can be used for the treatment of inflammation, ulcer, trauma, abscess, empyema, emphysema, bronchitis and other diseases.
- As a food processing additive, trypsin is used to treat proteins to improve nutrition absorption.
- Trypsin is widely used in the research and development in the pharmaceutical, food and environmental industries because of its special digestive function of hydrolyzing proteins.

Chymotrypsin



Description

Chymotrypsin is a digestive enzyme, first found as a component of pancreatic juice acting in the duodenum. Chymotrypsin is well known for its function of proteolysis, the breakdown of proteins and polypeptides. Chymotrypsin preferentially cleaves peptide amide bonds where the side chain of the amino acid C-terminal to the scissile amide bond is a large hydrophobic amino acid. These amino acids contain an aromatic ring in their sidechain that fits into a 'hydrophobic pocket' of the enzyme, which makes chymotrypsin cleavage highly specific. The enzyme is usually activated in the presence of trypsin.

Product Information

Cat No. DIGS-227	CAS No. 9004-07-3
EC No. EC 3.4.21.1	Appearance: White lyophilized powder
Activity: >1000 USP U/mg	Storage: Sealed, in dark, at 2-8 °C

Applications

- Chymotrypsin is a pharmaceutical raw material for the treatment of trauma, inflammation, edema, hemorrhage, local swelling, otitis media, rhinitis, etc.
- Chymotrypsin is used in combination with trypsin as an anti-inflammatory drug.
- As an auxiliary drug of antibiotics, chymotrypsin is widely used in the field of veterinary medicine and animal health care.

For both enzymes, we also have other [trypsin](#) and [chymotrypsin](#) products for research and industrial use.