

Chymotrypsin Activation (Maturation) Kit

Catalog: TBS2120

DESCRIPTION

Chymotrypsin (EC3.4.21.1) is a kind of digestive enzyme in the component of pancreatic juice to breakdown of proteins and polypeptides. It cleaves peptide bonds at side of the N-terminal to the hydrophobic amino acid which contains an aromatic ring in the side chain, such as tyrosine, tryptophan and phenylalanine. It is used to manage and reduce swelling and inflammation and is related to some diseases, such as Alzheimer's disease, diabetes, cancer.

Chymotrypsin is initially synthesized as an inactive precursor (Zymogen) termed Chymotrypsinogen. Activation or maturation of chymotrypsinogen involves proteolytic steps.

Tribioscience Chymotrypsin Activation (Maturation) Kit provides a simple method to activate chymotrypsin protein precursor chymotrypsinogen to mature chymotrypsin in biological samples (tissue, cells, serum, urine, stool and recombinant protein).

Synonyms: Chymotrypsin; Chymotrypsinogen; alpha chymotrypsin.

APPLICATIONS

This kit is used for activating inactive chymotrypsinogen to active chymotrypsin in biological samples and recombinant protein.

KEY FEATURES

Simple: Just one step

KIT CONTENTS

Component	Part Size
Activation buffer	20 ml
Activator (100x)	100 μ L

STORAGE CONDITIONS

The kit is shipped on ice and should be stored at -20°C for long-term storage. Shelf life of 12 months after receipt.

PROCEDURES

1. Dilute rhChymotrypsin to 200 $\mu\text{g}/\text{mL}$ in Activation Buffer.
2. Dilute 100x Activator to working solution in Activation Buffer: e.g. adding 1 μL of Activator to 99 μL of Activation Buffer.
3. Combine equal volumes of 200 $\mu\text{g}/\text{mL}$ rhChymotrypsin and working solution of Activator.
4. Incubate at 37°C for 1 hour.
5. The matured RhChymotrypsin is ready for enzyme activity assay.

RELATED PRODUCTS

Tryptase Activity Assay (TBS2101)
 Chymotrypsin Activity Assay (TBS2106C)
 Caspase-3 Fluorometric Assay kit (TBS3230)
 Tryptase Activity Assay (TBS2101)
 Cytochrome C Oxidase Activity Assay (TBS2115)
 Fast Glucose Determination Colorimetric/Fluorometric Assay (TBS2087)
 Glucose Oxidase Activity Colorimetric/Fluorometric Assay (TBS2088)
 Non-esterified Fatty Acid Assay (TBS2203)
 Glycerol Colorimetric / Fluorometric Assay (TBS2204)
 Protein Assay Kits (TBS2005)
 Cell Nuclear Extract kit (TBS6025)

Research use only.