

KRISHZYME™ Chymotrypsin C

Catalog Number: KBENZ53

Description

The KRISHZYME™ Chymotrypsin C, also known as caldecrin or elastase4, is a digestive enzyme of the peptidase S1 family. This enzyme is synthesized as an inactive chymotrypsinogen. On cleavage by trypsin into two parts that activate each other by removing two small peptides in a trans-proteolysis, chymotrypsin C is produced. N-linked glycosylation of human chymotrypsin is required for efficient folding and secretion, however, the N-linked glycan is unimportant for enzyme activity or inhibitor binding.

Source:

Human

Expression Host:

HEK293

Purity:

>97% as determined by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.

Endotoxin:

< 1 EU/1000 units as determined by the LAL method.

N terminal:

His Tag

SDS-PAGE:

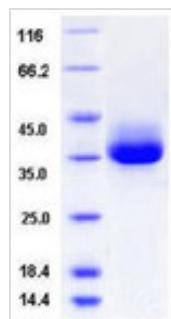


Fig. 1. Purity analysis by SDS-PAGE Detection

Molecular Mass:

The KRISHZYME™ DNase1 has a calculated molecular mass of approximately 29.3 kDa

Enzyme Activity:

Is measured by its ability to cleave the fluorogenic peptide substrate, SUC-Ala-Ala-Pro-Phe-AMC. The specific activity is >300 pmol/min/ug.

(Note: Activation of this protease is needed prior to the use in activity assays)

Formulation:

KRISHZYME™ DNase1 is supplied as lyophilized vial from a sterile solution of PBS, pH 7.4.

Reconstitution:

Being enzymes, the concentration may differ from lot to lot produced by us. We always recommend referring the accompanying data sheet to view the exact concentration and the recommended dilution schemata.

Centrifuge the vial at 4°C before opening to recover the entire contents. Please contact us for any concerns or special requirements at +91-22-49198700 | Email: sales1@krishgen.com

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving for at least 12 months. It is recommended to aliquot the enzyme into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.

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for US / Europe: toll free +1(888)-970-0827 tel: +1(562)-568-5005 | for Asia / India: tel: +91(22)-49198700
email: sales@krishgen.com | www.krishgen.com