

KRISHZYME™ Trypsin Inhibitor (Trypsin Inhibitor, soybean)

Catalog Number: KBENZ52

Description

The KRISHZYME™ Trypsin Inhibitor, soybean also known as Kunitz Soybean Trypsin Inhibitor (KTI) is a protease inhibitor that specifically inhibits the activity of trypsin and in some cases chymotrypsin, by binding to the active site and preventing substrate access. It is a serine protease inhibitor, meaning it targets proteases with serine in their active site.

Source:

Soybean

Purity:

>90% as determined by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.

Endotoxin:

< 0.05 EU/1000 units as determined by the LAL method.

Molecular Mass:

The KRISHZYME™ Trypsin Inhibitor, soybean has a calculated molecular mass of ~20 kDa

SDS-PAGE:

Fig.1.

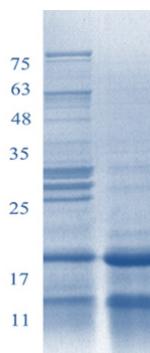


Fig. 1. Purity analysis by SDS-PAGE Detection

Activity:

The activity of the inhibitor is expressed as the amount of twice crystallized trypsin inhibited per milligram of inhibitor.

Formulation:

KRISHZYME™ Trypsin Inhibitor, soybean is supplied as a lyophilized product from buffer of PBS, pH 7.0

Reconstitution:

Being an enzyme, the concentration may differ from lot to lot. 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.

Application:

- Used to inhibit trypsin activity during protein isolation, cell lysis, or protease-sensitive assays.
- Prevents proteolytic degradation of proteins and peptides during extraction and purification steps.
- Inhibits trypsin post-digestion during peptide sample storage or LC-MS prep to prevent peptide degradation and modification.
- Used to neutralize residual trypsin after cell detachment to protect cell surface proteins and improve cell viability in downstream applications.
- As an anti-nutrient in raw soybeans that inhibits digestive enzymes in animals. Heat treatment during processing of soy products inactivates this inhibitor.
- Levels of trypsin inhibitor activity (TIA) are monitored in soy-based feeds to ensure nutritional value and digestibility.

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