



## DATA SHEET

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### Product Description

**Product:** Corn Trypsin Inhibitor

**Catalog Number:** CTI

**Description:** To begin the purification process, CTI is extracted from the kernels of fresh sweet corn into a physiologic buffer. The extract is then de-fatted using acetone, and the protein is further purified by employing gel filtration and ion-exchange chromatography. The final CTI preparation appears as a single band by SDS-PAGE analyses under both reducing and non-reducing conditions. Preparations of CTI are tested for the ability to prolong the aPTT assay without affecting the PT assay. The specific activity of each lot of CTI is determined, and one unit is defined as the amount of CTI required to double the aPTT of normal human plasma.

**Recommended Storage:** -70 C

**Shipping Conditions:** Dry ice

**Minimum Shelf Life:** 3 years from delivery

### Technical Information

**Purity:** >95% by SDS-PAGE analysis

**Source:** Corn

**Molecular Weight:** 12,500

**Extinction Coefficient:** 2

### Sample Characteristics

**Lot Number:** CTI-SAMPLE

**Aliquot:** 1 x 1.0 mg

**Concentration:** 4.3 mg/ml

**Volume:** 0.233 ml

**Specific activity:** 34.2 U/mg (One inhibitory unit will double the aPTT clot time of 1 ml of normal human plasma)

**Buffer:** 0.02M Tris-HCl; 0.15M NaCl; pH 7.4

**Form:** Frozen liquid

Optimal experimental conditions and working dilutions must be determined by the end user. Sample concentration and volume are for example purposes only and do not necessarily represent the product that will be received. Please contact us for a current lot-specific product datasheet.

For *in vitro* laboratory use only

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