

## BOWMAN-BIRK Inhibitor

Cat. No. CEI-1992

Lot. No. (See product label)

### Introduction

**Description** Highly cross-linked with seven disulfide bridges, Bowman-Birk inhibitor has spatially distinct domains for trypsin and chymotrypsin inhibition.

**Applications** Bowman Birk protease inhibitor prevents radiation-induced carcinogenesis by a reduction of incorrect DNA repairs, resulting in a reduced amount of dicentric chromosomes.

**Synonyms** BOWMAN-BIRK INHIBITOR; TRYPSIN-CHYMOTRYPSIN INHIBITOR; Proteinase inhibitor, BowMan-Birk; trypsin-chymotrypsin inhibitor from\*soybean; trypsin-chymotrypsin inhibitor from glycine max (soybean)

### Product Information

**Species** soybean

**Form** Lyophilized powder containing phosphate buffer salts, pH 7.6

**CAS No.** 37330-34-0

**Activity** 1 mg protein will inhibit  $\geq 0.5$  mg trypsin with activity of  $\sim 10,000$  BAEE units per mg protein or  $\geq 1.0$  mg chymotrypsin with activity of  $\sim 40$  BTEE units per mg protein.

**Composition** Protein, 70-90% biuret

**Unit Definition** One trypsin unit =  $\Delta A_{253}$  of 0.001 per min with BAEE as substrate at pH 7.6 at 25 °C. Reaction volume = 3.2 mL (1 cm light path).

### Usage and Packaging

**Package** 10 mg in glass bottle 25 mg in poly bottle 50, 100, 500 mg in glass bottle

### Storage and Shipping Information

**Storage** 2-8°C