Creative Enzymes®

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 ≥0.5 mg trypsin with activity of ~10,000 BAEE units per mg protein or ≥1.0 mg chymotrypsin with activity of ~40 BTEE units per mg protein.

Composition Protein, 70-90% biuret

Unit Definition One trypsin unit = ΔA253 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