Specification

Trypsin inhibitor from soybean > 7000 BAEE A1828

additional product description	lyophilized
M	ca. 21500 daltons
CAS-No.:	9035-81-8
HS-No.:	35040090
EC-No.:	232-906-9
Storage:	-20°C
LGK:	10 - 13
Specification	
Assay	min. 7000 U/mg

Literature

(1) Ozawa, K. & Laskowski, M. (1966) *J. Biol. Chem.* **241**, 3955-3961 The reactive site of Trypsin inhibitors.
(2) De Vonis Bidlingmeyer, U. *et al.* (1972) *Biochemistry* **11**, 3303-3310 Identity of the tryptic and α-chymotryptic reactive sites on soybean Trypsin inhibitor (Kunitz).
(3) Birk, Y. (1976) *Methods Enzymol.* **45 B**, 700-707 Trypsin and Chymotrypsin inhibitors from soybeans.

Comment

The Trypsin inhibitor from soybean inhibits trypsin in a molar ratio 1 : 1. Chymotrypsin will be inhibited to a lesser extent. Since the inhibitor is a protein, it cannot be dissolved in organic solvents and is heat-sensitive! Dissolve in water or diluted buffers. The pH optimum for its activity is 7.0.
One unit of the inhibitor inhibits one unit of trypsin activity (BAEE; Unit definition Trypsin according to NF/USP: That amount of enzyme that causes a increase in absorbance at 253 nm of 0.003 per minute at 25°C resulting from the hydrolysis of BAEE).