

Trypsin inhibitor from soybean

Cat NP00060

Size 25 mg/100 mg/250 mg/500 mg/1 g/5 g

Species

Glycine max (soybean)

Format

lyophilized powder

Storage

2-8°C

Additional information

The trypsin inhibitor is soluble in water and phosphate buffers at 10 mg/mL. It is soluble in balanced salt solutions at 1 mg/mL and in serum-free media. Concentrated solutions greater than 10 mg/mL may be hazy and have a yellow to amber color. After trypsinizing cells, resuspend in 1 mL trypsin inhibitor solution at 1 mg/mL for every mL of trypsin solution used for dissociation. The cell suspension should then be centrifuged at 1000 rpm, forming a cell pellet.

Solution

H₂O: >10 mg/mL

phosphate buffer: >10 mg/mL (hazy above 10 mg/ml)

soluble

Application

Trypsin has been used in a study to assess the potential application in animal cell culture of an alkaline protease from a non-toxicogenic mangrove isolate of *Vibrio* sp. V26. [1] Trypsin has also been used in a study to improve the detection of fungi in eosinophilic mucin.

Description

This inhibitor has less effect on trypsin, chymotrypsin and plasminase. It also inhibits proteases by a mechanism similar to trypsin, plasma kalase, and clotting factor x. Trypsin inhibitors do not act on metalloproteinases, tissue-based potassiases, acid proteases, or thiophenases. This inhibitor acts by forming a 1:1 chemical complex with the protease active site, and then cutting an arginine-isoleucine bond on the inhibitor. This inhibition is reversible and pH dependent.

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