

Datasheet**Trypsin Inhibitor III****Trypsin Inhibitor Solution**

Product	Description	Catalogue-No.	Size
Trypsin Inhibitor III	Trypsin inhibitor solution without animal or human components	P10-034105 P10-034100	5 ml 50 ml

Product description

Trypsin Inhibitor III is a sterile solution of purified proteins to inhibit trypsin proteolytic activity.

Storage conditions

Storage: -20°C in the dark
Stability: 2 years from date of production
Size: 5 ml, 50 ml, other sizes on request

Repeated freeze and thaw cycles will reduce activity and should be avoided. The product is stable for up to 2 years at recommended storage conditions. Thawed Trypsin Inhibitor III can be stored at 2-8°C for up to 1 month.

Composition

Trypsin Inhibitor III solution contains natural protease inhibitor proteins. The biological activity is depending on trypsin concentration.

Suitability

For inhibiting trypsin activity in serum-free culture of adherent cells.
Trypsin is used for dissociation of adhesion-dependent cells. Serum contains natural trypsin inhibitors. In serum-free cell culture the neutralizing effect of serum is absent. Therefore, it is crucial to completely block proteolytic activity from trypsin after detachment of the cells.

Inhibits trypsin activity; Chymotrypsin and other proteolytic enzymes are inhibited to a lesser extent.

Special advantages

Trypsin Inhibitor III is cell culture tested and is appropriate for use in cell culture applications.

Instructions for use

For in vitro laboratory use only, not for drug, human or animal use.

Use sterile cell culture technique when handling this solution.

- Use adherent cells in the log phase of the culture.
- Remove consumed medium with a pipette and discard.
- Rinse the cell layer with DPBS (without Ca²⁺/Mg²⁺).
- Cover cell layer with trypsin/EDTA (0.25%, 0.02%) (about 1 ml per T25 flask).
- Remove trypsin after about 1 minute.
- Depending on the cell type it may be necessary to incubate at 37°C. (or lower temperature for more sensitive cells).
- Tap flask gently and check in a microscope that all cells are detached.
- Add 1.0 – 2.0 ml Trypsin Inhibitor III solution to 25 cm² area.
- Centrifuge the cell suspension at 200 x g for 5 minutes. A cell pellet should form.
- Remove as much of the trypsin inhibitor as possible.
- Resuspend cells in serum-free culture medium and count.
- Distribute cells in new culture vessels at desired cell density.
- Follow routine cell culture procedure.

Please Note

Cell exposure to trypsin solution should be as brief as possible. Overexposure to trypsin can damage cells. Cell cultures under serum-free conditions in general detach more readily and are more sensitive to trypsin. Failure to neutralize trypsin may result in a loss of the culture.

Technical support

For technical support, questions or remarks please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email (info@pan-biotech.com) or phone +49-8543-601630.

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