



Synthetic Inhibitor of Fibrin Polymerization

Product No. ADG4530N

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Description

The synthetic inhibitor binds with a high affinity to fibrinogen, inhibits fibrin polymerization, modifies the mechanical properties of fibrin clots and can dissociate non-stabilized fibrin gels.

Chemistry

Formula: H-Gly-Pro-Arg-Pro-OH×AcOH

MW: 485.5

Solubility: readily soluble in water

Application

The inhibitor is added to fibrinogen containing reaction mixtures to inhibit disturbing fibrin-related turbidity, gel formation and fibrin deposition in diagnostic and preparative procedures (e.g. measurement of thrombin generation in plasma). The inhibitor is also used to inhibit fibrin formation during purification and processing of clotting factors and other plasma proteins.

Recommended inhibitor concentrations:

Application	Concentration
Gelation prevention:	
des-AB-fibrin	0.5-2.3 mM
des-A-fibrin	2.3 mM
human plasma, HC-II test	0.5 mg/ml
bov. fibrinogen 0.2% / thrombin 0.5 U/ml	1.5 mg/ml
Clot liquefaction:	
des-AB-fibrin	15.0 mM
des-A-fibrin	1.0 mM

Presentation

Vial containing 50 mg lyophilized inhibitor.

Reconstitution

Reconstitute with filtered deionized water.

Storage and Stability

May be used by the expiry date given on the label when stored unopened, protected from moisture, in the dark, 2-8°C. Avoid contamination of the reagents by micro-organisms. Shipment of product does not require cooling during the time of transportation.

References

- Effect of calcium and synthetic peptides on fibrin polymerization. Furlan M, Rupp C, Beck E A, Svendsen L. Thromb Haemost 1982; 47: 118-21.
- The ability of thrombin inhibitors to reduce the thrombin activity generated in plasma on extrinsic and intrinsic Activation. Prasa D, Svendsen L, Stürzebecher J. Thromb Haemost 1997; 77: 498-503.

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