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Bivalirudin - Purified

Catalog No.: AR10368PU-S

Quantity: 1 mg

Concentration: 1 mg/ml

Background: Bivalirudin directly inhibits thrombin by specifically binding as well to the catalytic site and to the anion-binding exosite of circulating and clot-bound thrombin. Bivalirudin is a specific and reversible direct thrombin inhibitor.
Thrombin, which is a serine protease, plays a central role in the thrombotic process; it cleaves fibrinogen into fibrin monomers and activates Factor XIII to Factor XIIIa, allowing fibrin to develop a covalently cross-linked structure which stabilizes the thrombus.
Thrombin also activates Factors V and VIII, which promotes further thrombin generation, activates platelets, stimulating aggregation and granule release.

Source: Synthetic

Format: **State:** Sterile Filtered White lyophilized (freeze-dried) powder.
Purity: › 98.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.
Buffer System: Lyophilized with 0.5mg Manntiol and Sodium Hydroxide 50µg, pH-5.5
Reconstitution: It is recommended to restore the lyophilized Bivalirudin in sterile 18MΩ-cm^{-1} H_2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Description: The active of Bivalirudin substance is a Synthetic 20 amino acid peptide.
AA Sequence:
`Phe-Pro-Arg-Pro-Gly-Gly-Gly-Gly- Asp-Gly-Asp-Phe-Glu-Glu-Ile- Pro-Glu-Glu-Tyr-Leu.`
Molecular weight: 2180 dalton

Storage: Lyophilized Bivalirudin although stable at RT for 3 weeks, should be stored desiccated below -18°C.
Upon reconstitution Bivalirudin should be stored at 2-8°C between 2-7 days and for future use below -18°C.
For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
Please prevent freeze-thaw cycles.