Bivalirudin

Cat. No. Bivalirudin-125 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The active of Bivalirudin substance is a synthetic 20 amino acid peptide.
Description	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.
Form	The protein (1mg/ml) was lyophilized with 0.5mg Manntiol and sodium hydroxide 50μg pH-5.5.
AA Sequence	The amino acid sequence is Phe-Pro-Arg-Pro-Gly-Gly-Gly-Gly-Asn-Gly-Asp-Phe-Glu-Glu-Ile-Pro-Glu-Glu-Tyr-Leu. The Mw is 2180 dalton.
Purity	Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Stability	Lyophilized Bivalirudin although stable at room temperature for 3 weeks, should be stored desiccated below -18 centigrade. Upon reconstitution Bivalirudin should be stored at 4 centigrade between 2-7 days and for future use below -18 centigrade.

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	For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Reconstitution	It is recommended to reconstitute the lyophilized Bivalirudin in sterile 18MΩ-cm H2O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

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