

Bivalirudin

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| Catalog No.: | PA1279XC |
| Quantity: | 0.1 g |
| Concentration: | 1.0 mg/ml |
| Background: | <p>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.</p> <p>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.</p> |
| Species: | Human |
| Source: | Synthetic |
| Format: | <p>State: Lyophilized, Sterile filtered purified protein.</p> <p>Purity: >98% Pure as determined by:</p> <p>(a) Analysis by RP-HPLC.</p> <p>(b) Analysis by SDS-PAGE.</p> <p>Buffer System: 0.5 mg Mannitol and Sodium Hydroxide 50 µg pH-5.5</p> <p>Endotoxin Level: < 0.1 ng/µg (IEU/µg) of Bivalirudin</p> <p>Dimers: < 1% as determined by silver-stained SDS-PAGE gel analysis</p> <p>Reconstitution: Restore in sterile 18MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions</p> |
| Description: | <p>Bivalirudin is a specific and reversible direct Thrombin Inhibitor. The active substance is a synthetic 20 amino acid peptide.</p> <p>AA Sequence: Phe-Pro-Arg-Pro-Gly-Gly-Gly-Gly- Asn-Gly-Asp-Phe-Glu-Glu-Ile- Pro-Glu-Glu-Tyr- Leu.</p> <p>Molecular weight: 2 kDa</p> |
| Add. Information: | <p>Protein content: Protein quantitation was carried out by two independent methods:</p> <ol style="list-style-type: none">1. UV spectroscopy at 280 nm.2. Analysis by RP-HPLC, using a calibrated solution of Bivalirudin as a Reference Standard. |

Storage:

Prior to reconstitution stable at RT for 3 weeks.

Following reconstitution store the protein undiluted at 2-8°C for one week or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Shelf life: one year from despatch.