

### OriGene Technologies Inc.

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# AR10368PU-L

#### OriGene EU

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## **Bivalirudin - Purified**

Catalog No.: AR10368PU-L

Quantity: 0.1 g
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

**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

 $18M\Omega$ -cm<sup>-1</sup> H<sub>2</sub>O 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.

