

## OriGene Technologies Inc.

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## PA1279 OriGene EU

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## Bivalirudin

Catalog No.:	PA1279
Quantity:	1 mg
Concentration:	1.0 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.
Species:	Human
Source:	Synthetic
Format:	<ul> <li>State: Lyophilized, Sterile filtered purified protein.</li> <li>Purity: &gt;98% Pure as determined by: <ul> <li>(a) Analysis by RP-HPLC.</li> <li>(b) Analysis by SDS-PAGE.</li> </ul> </li> <li>Buffer System: 0.5 mg Manntiol and Sodium Hydroxide 50 µg pH-5.5</li> <li>Endotoxin Level: &lt; 0.1 ng/µg (IEU/µg) of Bivalirudin</li> <li>Dimers: &lt; 1 % as determined by silver-stained SDS-PAGE gel analysis</li> <li>Reconstitution: Restore in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions</li> </ul>
Description:	Bivalirudin is a specific and reversible direct Thrombin Inhibitor. The active substance is a synthetic 20 amino acid peptide. AA Sequence: Phe-Pro-Arg-Pro-Gly-Gly-Gly-Gly- Asn-Gly-Asp-Phe-Glu-Glu-Ile- Pro-Glu-Glu-Tyr-Leu. Molecular weight: 2 kDa
Add. Information:	Protein content: Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm. 2. Analysis by RP-HPLC, using a calibrated solution of Bivalirudin as a Reference Standard.

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.



OG/20121030

Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com

Storage:

## PA1279: Bivalirudin

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.



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