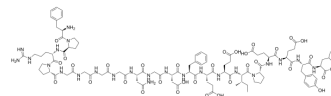


Bivalirudin

Cat. No.:	HY-P1929
CAS No.:	128270-60-0
Molecular Formula:	C ₉₈ H ₁₃₈ N ₂₄ O ₃₃
Molecular Weight:	2180.29
Sequence:	{d-Phe}-Pro-Arg-Pro-Gly-Gly-Gly-Gly-Asn-Gly-Asp-Phe-Glu-Glu-ILE-Pro-Glu-Glu-Tyr-Leu
Sequence Shortening:	{d-Phe}-PRPGGGGNGDFEEIPEEYL
Target:	Thrombin
Pathway:	Metabolic Enzyme/Protease
Storage:	Sealed storage, away from moisture
	Powder -80°C 2 years
	-20°C 1 year



* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

H₂O : 10 mg/mL (4.59 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	0.4587 mL	2.2933 mL	4.5865 mL
5 mM	---	---	---
10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Bivalirudin, a peptide anticoagulant, is a direct thrombin inhibitor for anticoagulation in the setting of invasive cardiology, particularly percutaneous coronary intervention^{[1][2]}.

In Vivo

Bivalirudin (2 mg/kg) delays both the time for appearance of first thrombus and the time for occlusion in P2Y12^{+/+} arteries, although neither prevented vessel occlusion^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Allergy. 2022 Jan 7.
- Compos Part B-Eng. 1 April 2022, 109702.
- Antiviral Res. 2023 Apr 17;105606.
- J Am Soc Mass Spectrom. 2020 Jul 5.
- J Clin Pathol. 2019 Dec;72(12):817-824.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Bates ER, et al. Bivalirudin: an anticoagulant option for percutaneous coronary intervention. *Expert Rev Cardiovasc Ther.* 2004 Mar;2(2):153-62.
- [2]. André P, et al. Anticoagulants (thrombin inhibitors) and aspirin synergize with P2Y12 receptor antagonism in thrombosis. *Circulation.* 2003 Nov 25;108(21):2697-703.
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Caution: Product has not been fully validated for medical applications. For research use only.

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