

Succinyl-(Pro58,D-Glu65)-Hirudin (56-65) (sulfated)

Cat. No.:	HY-P4721
CAS No.:	131791-98-5
Molecular Formula:	C ₆₄ H ₈₈ N ₁₀ O ₂₆ S
Molecular Weight:	1445.5
Sequence:	{Suc-Phe}-Glu-Pro-Ile-Pro-Glu-Glu-{Tyr(SO ₃ H)}-Leu-{d-Glu}
Sequence Shortening:	{Suc-Phe}-EPIPEE-{Tyr(SO ₃ H)}-L-{d-Glu}
Target:	Thrombin
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Succinyl-(Pro58,D-Glu65)-Hirudin (56-65) (sulfated) is a hirugen-like peptide, and has high affinity for thrombin than Hirugen, with a $K_D < 100$ nM. Succinyl-(Pro58,D-Glu65)-Hirudin (56-65) (sulfated) is an antithrombotic agent. Succinyl-(Pro58,D-Glu65)-Hirudin (56-65) (sulfated) inhibits the thrombin-induced fibrin clot formation with an IC₅₀ value of 0.087 μ M^[1].

REFERENCES

- [1]. Dekker RJ, et al. The variable region-1 from tissue-type plasminogen activator confers specificity for plasminogen activator inhibitor-1 to thrombin by facilitating catalysis: release of a kinetic block by a heterologous protein surface loop. *J Mol Biol.* 1999 Oct 29;293(3):613-27.
- [2]. Payne MH, et al. Positional effects of sulfation in hirudin and hirudin PA related anticoagulant peptides. *J Med Chem.* 1991 Mar;34(3):1184-7.

Caution: Product has not been fully validated for medical applications. For research use only.

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