Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Bivalirudin (Trifluoroacetate)

Catalog No: tcsc1433

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
128270-60-0

Formula:
$C_{100}H_{138}DF_3N_{24}O_{35}$

Pathway:
Metabolic Enzyme/Protease

Target:
Thrombin

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 31 mg/mL (13.51 mM)

Observed Molecular Weight:
2295.31

Product Description

Bivalirudin Trifluoroacetate is a synthetic 20 residue peptide which reversibly inhibits thrombin.

IC50 Value:

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Target: thrombin

in vitro: Eptifibatide (8 mg/mL) added together with a low (70 ng/mL) concentration of bivalirudin (a direct thrombin inhibitor) effectively (approximately 90%) reduced platelet aggregation induced by thrombin (0.2 U/mL) [1]. In thrombin generation assay (TGA), bivalirudin had no effect on these parameters up to 10 µmol/l [2]. Bivalirudin-facilitated binding of MPO to BAEC resulted also in functional changes in terms of increased NO consumption as well as enhanced MPO-mediated redox modifications [3].

in vivo: The use of bivalirudinprevented further increase in antiheparin/PF4 antibody IgG levels in rats [4]. Three animals in the 500-mg/kg/24 h group, and 7 animals in the 2000-mg/kg/24 h group in the toxicokinetic assessment phase of the study were found dead or euthanized in extremis (following blood sampling). Plasma concentrations of bivalirudin appeared to be linear and dose independent [5].

Clinical trial: Antithrombotic Effects of Ticagrelor Versus Clopidogrel . Phase 4