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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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TRV-120027 TFA

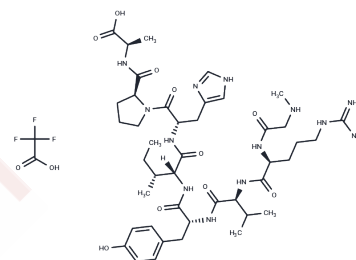
Chemical Properties

CAS No. :

Formula: C₄₅H₆₈F₃N₁₃O₁₂

Molecular Weight: 1040.1

Appearance: no data available

Storage: keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	TRV-120027 TFA is an angiotensin II-mediated vasoconstriction inhibitor and increases cardiomyocyte contractility. TRV-120027 TFA is a β -arrestin-1-biased AT ₁ R agonist engaging β -arrestins while blocking G-protein signaling[1]. TRV-120027 TFA induces acute catecholamine secretion through cation channel subfamily C3 (TRPC3) coupling and promotes the formation of a macromolecular complex composed of AT ₁ R- β -arrestin-1-TRPC3-PLC γ at the plasma membrane.
Targets(IC ₅₀)	RAAS,TRP/TRPV Channel,Arrestin
In vitro	Treatment of 100 nM TRV-120027 TFA induces an [Ca ²⁺] _i increase in HEK293 cells co-transfected with AT ₁ R, β -arrestin-1, and TRPC3, which are significantly blocked by Pyr3 pre-incubation in HEK293 cells co-transfected with Flag-AT ₁ R-Cherry, HA- β -arrestin-1, and TRPC3-GFP[1]. Treatment of 100 nM TRV-120027 TFA significantly increases the AT ₁ R and TRPC3 association with the immunoprecipitated β -arrestin-1 in HEK293 cells co-transfected with Flag-AT ₁ R-cherry, HA- β -arrestin-1 and TRPC3-GFP[1].
In vivo	TRV-120027 TFA combined with furosemide decreases cardiac preload and afterload, systemic and renal vascular resistances, and left ventricular external work while increasing cardiac output and renal blood flow[2].

Solubility Information

Solubility	DMSO: 88 mg/mL (84.61 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9614 mL	4.8072 mL	9.6145 mL
5 mM	0.1923 mL	0.9614 mL	1.9229 mL
10 mM	0.0961 mL	0.4807 mL	0.9614 mL
50 mM	0.0192 mL	0.0961 mL	0.1923 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Liu CH, et al. Arrestin-biased AT1R agonism induces acute catecholamine secretion through TRPC3 coupling. Nat Commun. 2017 Feb 9;8:14335.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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