

Catalog Number: CM20646

## 产品信息

**Catalog Number:**  
CM20646

**CAS号:**  
TP2158

**分子式:**  
 $C_{45}H_{68}F_3N_{13}O_{12}$

**主要靶点:**  
RAAS

**主要通路:**  
内分泌与激素

**分子量:**  
1040.1

**溶解度:**

DMSO:88 mg/mL (84.61 mM)

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## 靶点活性

the angiotensin II receptor type 1:

## 体外活性

Treatment of 100 nM TRV-120027 TFA induces an  $[Ca^{2+}]_i$  increase in HEK293 cells co-transfected with AT1R,  $\beta$ -arrestin-1, and TRPC3, which are significantly blocked by Pyr3 pre-incubation in HEK293 cells co-transfected with Flag-AT1R-Cherry, HA- $\beta$ -arrestin-1, and TRPC3-GFP[1]. Treatment of 100 nM TRV-120027 TFA significantly increases the AT1R and TRPC3 association with the immunoprecipitated  $\beta$ -arrestin-1 in HEK293 cells co-transfected with Flag-AT1R-cherry, HA- $\beta$ -arrestin-1 and TRPC3-GFP[1].

## 体内活性

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].

## 描述

TRV-120027 TFA is an angiotensin II-mediated vasoconstriction inhibitor and increases cardiomyocyte contractility. TRV-120027 TFA is a  $\beta$ -arrestin-1-biased AT1R agonist engaging  $\beta$ -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 AT1R- $\beta$ -arrestin-1-TRPC3-PLC  $\gamma$  at the plasma membrane.

## 储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years