
Product Data Sheet

Product Name: TRV056
Cat. No.: GC70069

Chemical Properties

Cas. No. 812644-79-4

Formula $C_{52}H_{74}N_{14}O_{13}$

M.Wt 1103.23

Solubility H₂O : 1.96 mg/mL (1.78 mM); ultrasonic and adjust pH to 2 with HCl

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

TRV056 is a Gq-biased ligand of the angiotensin II receptor type 1 (AT1R). TRV056 is efficacious in stimulating cellular Gq-mediated signaling. TRV056 can be used to develop the Gq-biased AT1R agonists^[1].

TRV056 is a "gain-of-function" ligand that have >10-fold greater allosteric coupling to Gq than AngII and is also more efficacious in stimulating cellular Gq-mediated signaling (e.g., IP1 generation). Compared to the endogenous ligand angiotensin II (AngII), "Gq-biased" AT1R agonists are more efficacious in stimulating Gq-mediated cellular signaling and in allosterically promoting Gq coupling^[1].

[1]. Laura M Wingler, et al. Angiotensin Analogs with Divergent Bias Stabilize Distinct Receptor Conformations. Cell. 2019 Jan 24;176(3):468-478.e11.

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

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