

TRV055

## Chemical Properties

CAS No. : 25849-90-5

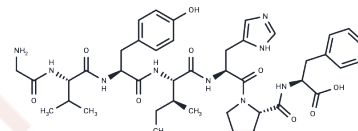
Formula: C42H57N9O9

Molecular Weight: 831.972

Keep away from moisture

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

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	TRV055 is a Gq-biased ligand of the angiotensin II receptor type 1 (AT1R). TRV055 is efficacious in stimulating cellular Gq-mediated signaling. TRV055 can be used to develop the Gq-biased AT1R agonists.
Targets(IC50)	RAAS,ERK
In vitro	TRV055 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].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.202 mL	6.0098 mL	12.0197 mL
5 mM	0.2404 mL	1.202 mL	2.4039 mL
10 mM	0.1202 mL	0.601 mL	1.202 mL
50 mM	0.024 mL	0.1202 mL	0.2404 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

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

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