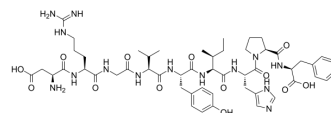


## TRV056

**Cat. No.:** HY-P3137  
**CAS No.:** 812644-79-4  
**Molecular Formula:** C<sub>52</sub>H<sub>74</sub>N<sub>14</sub>O<sub>13</sub>  
**Molecular Weight:** 1103.23  
**Sequence Shortening:** DRGVYIHPF  
**Target:** Angiotensin Receptor  
**Pathway:** GPCR/G Protein  
**Storage:** Sealed storage, away from moisture and light, under nitrogen



Powder    -80°C    2 years  
               -20°C    1 year

\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

## SOLVENT & SOLUBILITY

### In Vitro

H<sub>2</sub>O : 1.96 mg/mL (1.78 mM; ultrasonic and adjust pH to 2 with HCl)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		0.9064 mL	4.5321 mL	9.0643 mL
	5 mM		---	---	---
	10 mM		---	---	---

Please refer to the solubility information to select the appropriate solvent.

## BIOLOGICAL ACTIVITY

### Description

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<sup>[1]</sup>.

### In Vitro

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<sup>[1]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

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

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