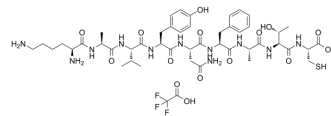


## GP(33-41) TFA

<b>Cat. No.:</b>	HY-P0323A
<b>Molecular Formula:</b>	C <sub>48</sub> H <sub>70</sub> F <sub>3</sub> N <sub>11</sub> O <sub>15</sub> S
<b>Molecular Weight:</b>	1130.19
<b>Target:</b>	Arenavirus
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	Sealed storage, away from moisture and light 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)



## SOLVENT & SOLUBILITY

### In Vitro

H<sub>2</sub>O : 1.82 mg/mL (1.61 mM; ultrasonic and adjust pH to 4 with HCl)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	0.8848 mL	4.4240 mL	8.8481 mL
5 mM	---	---	---
10 mM	---	---	---

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

## BIOLOGICAL ACTIVITY

### Description

GP(33-41) TFA, a 9-aa-long peptide, is the optimal sequence of the GP1 epitope of lymphocytic choriomeningitis virus. GP(33-41) TFA can upregulate H-2D<sup>b</sup> molecules at the RMA-S (Db Kb) cell surface with a SC<sub>50</sub> of 344 nM<sup>[1]</sup>.

### In Vitro

GP(33-41) TFA sensitizes MC57 and T2-D<sup>b</sup> cells to lysis with ED<sub>50</sub>s of 0.9±0.6 and 2.5±0.7 nM<sup>[1]</sup>. The interaction between T cell receptors (TCR) and peptide-major histocompatibility complex (pMHC) antigens can lead to varying degrees of agonism (T cell activation), or antagonism. The P14 TCR recognises the lymphocytic choriomeningitis virus (LCMV)-derived peptide, GP(33-41) (KAVYNFATC), presents in the context of H-2D<sup>b</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. Gairin JE, et al. Optimal lymphocytic choriomeningitis virus sequences restricted by H-2Db major histocompatibility complex class I molecules and presented to cytotoxic T lymphocytes. J Virol. 1995 Apr;69(4):2297-305.

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

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