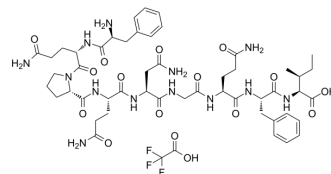


## Nucleoprotein (396-404) (TFA)

**Cat. No.:** HY-P1571A  
**Molecular Formula:** C<sub>52</sub>H<sub>72</sub>F<sub>3</sub>N<sub>13</sub>O<sub>16</sub>  
**Molecular Weight:** 1192.2  
**Sequence:** Phe-Gln-Pro-Gln-Asn-Gly-Gln-Phe-Ile  
**Sequence Shortening:** FQPQNGQFI  
**Target:** Arenavirus  
**Pathway:** Anti-infection  
**Storage:** Sealed storage, away from moisture  
 Powder    -80°C    2 years  
              -20°C    1 year



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

### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (83.88 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	0.8388 mL	4.1939 mL	8.3879 mL
	5 mM	0.1678 mL	0.8388 mL	1.6776 mL
	10 mM	0.0839 mL	0.4194 mL	0.8388 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (2.10 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (2.10 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (2.10 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Nucleoprotein (396-404) TFA is the 396 to 404 fragment of lymphocytic choriomeningitis virus (LCMV). Nucleoprotein (396-404) TFA is the H-2D(b)-restricted immunodominant epitope and can be used as a molecular model of viral antigen <sup>[1][2]</sup>.

### REFERENCES

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[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.

[2]. Hudrisier D, et al. Structural and functional identification of major histocompatibility complex class I-restricted self-peptides as naturally occurring molecular mimics of viral antigens. Possible role in CD8+ T cell-mediated, virus-induced autoimmune disease. J Biol Chem. 2001 Jun 1;276(22):19396-403. Epub 2001 Mar 8.

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

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