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Product Data Sheet

Nucleoprotein (396-404) (TFA)

Cat. No.:	HY-P1571A				
Molecular Formula:	$C_{52}H_{72}F_{3}N_{13}O_{16}$				
Molecular Weight:	1192.2				
Sequence:	Phe-Gln-Pro-Gln-Asn-Gly-Gln-Phe-Ile				
Sequence Shortening:	FQPQNGQFI				
Target:	Arenavirus	F F F			
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 Mass Concentration	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 sol	ubility information to select the app	propriate solvent.			
In Vivo	1. 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					
	2. 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					
	3. Add each solvent o Solubility: ≥ 2.5 m	one by one: 10% DMSO >> 90% corr g/mL (2.10 mM); Clear solution	n oil			

OGICAL ACTIV	Тү
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 ^{[1][2]} .

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.

[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 di

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

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