

## TAT-14

<b>Cat. No.:</b>	HY-P1328	
<b>CAS No.:</b>	1362661-34-4	
<b>Molecular Formula:</b>	C <sub>137</sub> H <sub>230</sub> N <sub>48</sub> O <sub>39</sub>	
<b>Molecular Weight:</b>	3173.59	YGRKKRRQRRRLQLDEETGEFLPIQ
<b>Sequence:</b>	Tyr-Gly-Arg-Lys-Lys-Arg-Arg-Gln-Arg-Arg-Arg-Leu-Gln-Leu-Asp-Glu-Glu-Thr-Gly-Glu-Ph e-Leu-Pro-Ile-Gln	
<b>Sequence Shortening:</b>	YGRKKRRQRRRLQLDEETGEFLPIQ	
<b>Target:</b>	Keap1-Nrf2	
<b>Pathway:</b>	NF-κB	
<b>Storage:</b>	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

<b>In Vitro</b>	H <sub>2</sub> O : 100 mg/mL (31.51 mM); Need ultrasonic					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		0.3151 mL	1.5755 mL	3.1510 mL
		<b>5 mM</b>		0.0630 mL	0.3151 mL	0.6302 mL
	<b>10 mM</b>		0.0315 mL	0.1576 mL	0.3151 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: PBS Solubility: 50 mg/mL (15.76 mM); Clear solution; Need ultrasonic					

### BIOLOGICAL ACTIVITY

<b>Description</b>	TAT-14 is a 14-mer peptide that acts as Nrf2 activator with an anti-inflammatory effect. TAT-14 has no effect on Nrf2 mRNA expression, but increases Nrf2 protein level due to targeting the Nrf2 binding site on Keap1 <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC50: Nrf2 <sup>[1]</sup>

### REFERENCES

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

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