

## C-Peptide 1 (rat)

<b>Cat. No.:</b>	HY-P4858		
<b>CAS No.:</b>	41475-27-8		
<b>Molecular Formula:</b>	C <sub>140</sub> H <sub>228</sub> N <sub>38</sub> O <sub>51</sub>		
<b>Molecular Weight:</b>	3259.58		
<b>Sequence:</b>	EVEDPQVPQLELGGGPEAGDLQTLALEVARQ Glu-Val-Glu-Asp-Pro-Gln-Val-Pro-Gln-Leu-Glu-Leu-Gly-Gly-Gly-Pro-Glu-Ala-Gly-Asp-Leu-Gln-Thr-Leu-Ala-Leu-Glu-Val-Ala-Arg-Gln		
<b>Sequence Shortening:</b>	EVEDPQVPQLELGGGPEAGDLQTLALEVARQ		
<b>Target:</b>	GSK-3		
<b>Pathway:</b>	PI3K/Akt/mTOR; Stem Cell/Wnt		
<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

DMSO : 100 mg/mL (30.68 mM; Need ultrasonic)  
H<sub>2</sub>O : 100 mg/mL (30.68 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	0.3068 mL	1.5339 mL	3.0679 mL
	5 mM	0.0614 mL	0.3068 mL	0.6136 mL
	10 mM	0.0307 mL	0.1534 mL	0.3068 mL

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

### BIOLOGICAL ACTIVITY

#### Description

C-Peptide 1 (rat), a peptide, is a  $\beta$ -catenin/GSK-3 $\beta$  activator. C-Peptide 1 (rat) can regulate the Wnt/ $\beta$ -catenin signaling pathway. C-Peptide 1 (rat) can be used for the research of cancer<sup>[1]</sup>.

### REFERENCES

[1]. Zhang N, et al. The recent progress of peptide regulators for the Wnt/ $\beta$ -catenin signaling pathway. Front Med (Lausanne). 2023 Jun 16;10:1164656.

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

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