

## Synstatin (92-119)

<b>Cat. No.:</b>	HY-P5133
<b>CAS No.:</b>	1259384-47-8
<b>Molecular Formula:</b>	C <sub>133</sub> H <sub>207</sub> N <sub>35</sub> O <sub>46</sub>
<b>Molecular Weight:</b>	3032.27
<b>Sequence:</b>	LPAGEKPEEGEPVLHVEAEPGFTARDKE Leu-Pro-Ala-Gly-Glu-Lys-Pro-Glu-Glu-Gly-Glu-Pro-Val-Leu-His-Val-Glu-Ala-Glu-Pro-Gly -Phe-Thr-Ala-Arg-Asp-Lys-Glu
<b>Sequence Shortening:</b>	LPAGEKPEEGEPVLHVEAEPGFTARDKE
<b>Target:</b>	Integrin
<b>Pathway:</b>	Cytoskeleton
<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 : ≥ 100 mg/mL (32.98 mM)  
\* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	0.3298 mL	1.6489 mL	3.2979 mL
	5 mM	0.0660 mL	0.3298 mL	0.6596 mL
	10 mM	0.0330 mL	0.1649 mL	0.3298 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Synstatin (92-119) is an anti-tumor agent that inhibits angiogenesis and cancer cell invasion. Synstatin (92-119) down-regulates integrin  $\alpha\beta3$  and reduces the activation of angiogenic growth factors VEGF and FGF-2<sup>[1][2]</sup>.

### REFERENCES

[1]. Metwaly HA, et al. Inhibition of the signaling pathway of syndecan-1 by synstatin: A promising anti-integrin inhibitor of angiogenesis and proliferation in HCC in rats. Arch Biochem Biophys. 2018 Aug 15;652:50-58.

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[2]. Rapraeger AC. Synstatin: a selective inhibitor of the syndecan-1-coupled IGF1R- $\alpha$ v $\beta$ 3 integrin complex in tumorigenesis and angiogenesis. FEBS J. 2013 May;280(10):2207-15.

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

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