

## Properdistatin

<b>Cat. No.:</b>	HY-P3996
<b>CAS No.:</b>	945373-85-3
<b>Molecular Formula:</b>	C <sub>89</sub> H <sub>149</sub> N <sub>33</sub> O <sub>27</sub> S <sub>2</sub>
<b>Molecular Weight:</b>	2177.47
<b>Sequence Shortening:</b>	GPWEPCSVTCSKGTRTRRR
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

<b>Description</b>	Properdistatin is a peptide derived from the thrombospondin 1 (TSP-1) domain of properdin. Properdistatin inhibits angiogenesis and improves vascular function. Properdistatin has the potential for the research of melanoma <sup>[1]</sup> .	
<b>In Vivo</b>	Properdistatin (80 mg/kg; i.p.; daily for 4 days) inhibits angiogenesis and improves vascular function in mouse melanoma xenograft model <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	<b>Animal Model:</b>	Adult female BALB/c nu/nu mice (R-18, A-07, and D-12 human melanoma cells) <sup>[1]</sup>
	<b>Dosage:</b>	80 mg/kg
	<b>Administration:</b>	I.p.; daily for 4 days
	<b>Result:</b>	Inhibited angiogenesis in human melanoma xenografts with low TSP-1 expression, selectively removed small-diameter capillaries, but did not change the morphology of tumor arterioles or tumor venules, and reduced blood supply times and increased plasma velocities.

### REFERENCES

[1]. Gaustad JV, et al. Properdistatin inhibits angiogenesis and improves vascular function in human melanoma xenografts with low thrombospondin-1 expression. *Oncotarget*. 2016 Nov 22;7(47):76806-76815.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA