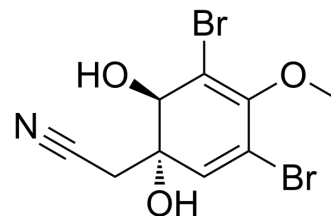


## Aeropylsinin 1

<b>Cat. No.:</b>	HY-19827	
<b>CAS No.:</b>	28656-91-9	
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>9</sub> Br <sub>2</sub> NO <sub>3</sub>	
<b>Molecular Weight:</b>	338.98	
<b>Target:</b>	Bacterial; HIV; Apoptosis	
<b>Pathway:</b>	Anti-infection; Apoptosis	
<b>Storage:</b>	Pure form	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	Aeropylsinin 1 ((+)-Aeropylsinin-1), a secondary metabolite isolated from marine sponges, shows potent antibiotic effects on Gram-positive bacteria and exerts antiviral activity against HIV-1 (IC <sub>50</sub> =14.6 μM). Aeropylsinin 1 has anti-inflammatory, anti-angiogenic and anti-tumor activities. Aeropylsinin 1 induces apoptosis in endothelial cells <sup>[1][2]</sup> .		
<b>IC<sub>50</sub> &amp; Target</b>	Bacterial	HIV-1 14.6 μM (IC <sub>50</sub> )	Apoptosis
<b>In Vitro</b>	<p>Aeropylsinin 1 shows anti-proliferative effect against tumor cells (HT-1080, HTC-116, HeLa, THP-1, NOMO-1 and HL-60 cells), with IC<sub>50</sub>s ranging from 2.3 to 17 μM<sup>[1]</sup>.</p> <p>Aeropylsinin-1 also exhibits an antiviral activity toward HIV-1 caused by inhibition of its reverse transcriptase activity<sup>[1]</sup>.</p> <p>Aeropylsinin 1 inhibits <i>P. phosphoreum</i>, <i>C. wailesii</i>, <i>P. minimum</i> and HIV with IC<sub>50</sub>s of 3.5, 5.6, 7.0 and 14.6 μM<sup>[1]</sup>.</p> <p>Aeropylsinin 1 inhibits human endothelial cells (EVLC-2, HMEC, RF-24, and HUVEC cells), with IC<sub>50</sub>s ranging from 2.6 to 4.7 μM<sup>[2]</sup>.</p> <p>(+)-Aeropylsinin-1 (0.25-0.5 μM) blocks the EGF-dependent proliferation of both MCF-7 and ZR-75-1 human breast cancer cells and inhibits the ligand-induced endocytosis of the EGF receptor in vitro<sup>[3]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>		

### REFERENCES

- [1]. García-Vilas JA, et al. Aeropylsinin-1, a Sponge-Derived Multi-Targeted Bioactive Marine Drug. *Mar Drugs*. 2015;14(1):1. Published 2015 Dec 22.
- [2]. Martínez-Poveda B, et al. The brominated compound aeropylsinin-1 inhibits proliferation and the expression of key pro-inflammatory molecules in human endothelial and monocyte cells. *PLoS One*. 2013;8(1):e55203.
- [3]. Kreuter MH, et al. Inhibition of intrinsic protein tyrosine kinase activity of EGF-receptor kinase complex from human breast cancer cells by the marine sponge metabolite (+)-aeropylsinin-1. *Comp Biochem Physiol B*. 1990;97(1):151-158.

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

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