## Asteltoxin

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway:	HY-119665 79663-49-3 C <sub>23</sub> H <sub>30</sub> O <sub>7</sub> 418.48 AMPK; mTOR Epigenetics; PI3K/Akt/mTOR	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

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Product Data Sheet

BIOLOGICAL ACTIVITY			
Description	Asteltoxin is an inhibitor for extracellular vesicles (EV), which exhibits inhibitory effects towards mitochondrial ATP synthase and mTORC1 activation <sup>[1]</sup> .		
In Vitro	Asteltoxin (1-100 μg/ml) inhibits the production of CD63-positive EV with IC <sub>50</sub> of 2.1 μg/ml and exhibits no significant cytotoxicity in HT29 cells <sup>[1]</sup> . Asteltoxin (1-10 μg/ml) activates AMPK pathways and inhibits mTORC1 pathways by inducing a decrease in ATP level, therefore activates lysosome function and inhibits the EV secretion of cancer cells PC-3 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay <sup>[1]</sup>		
	Cell Line:	HT-29	
	Concentration:	1-100 μg/ml	
	Incubation Time:	24 h	
	Result:	Exhibited cytotoxicity with an IC $_{\rm 50}$ over 100 $\mu g/ml.$	
	Cell Proliferation Assay <sup>[1]</sup>		
	Cell Line:	PC-3	
	Concentration:	1-10 μg/ml	
	Incubation Time:	3 days	
	Result:	Revealed no effect on anchorage-dependent growth of PC-3.	
	Western Blot Analysis <sup>[1]</sup>		
	Cell Line:	PC-3	
	Concentration:	1-10 μg/ml	
	Incubation Time:	24 h	

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Result:

## REFERENCES

[1]. Mitani F,et al., Asteltoxin inhibits extracellular vesicle production through AMPK/mTOR-mediated activation of lysosome function. Sci Rep. 2022 Apr 23;12(1):6674.

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

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