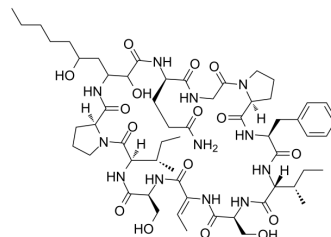


## Muscotoxin A

Cat. No.:	HY-131058
CAS No.:	1653999-47-3
Molecular Formula:	C <sub>58</sub> H <sub>90</sub> N <sub>12</sub> O <sub>16</sub>
Molecular Weight:	1211.41
Target:	ADC Cytotoxin
Pathway:	Antibody-drug Conjugate/ADC Related
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Muscotoxin A is an ADC cytotoxin. Muscotoxin A is a cytotoxic lipopeptide that permeabilizes mammalian cell membranes and induces necrotic cell death <sup>[1]</sup> .
In Vitro	Muscotoxin A (0-13.2 μM ; 24 hours) is cytotoxic to YAC-1, Sp/2, and HeLa cancer cell lines (LC <sub>50</sub> ) ranged from 9.9 to 13.2 μM, causing membrane damage and influx of calcium ions <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Petr Tomek, et al. Cytotoxic Lipopeptide Muscotoxin A, Isolated From Soil Cyanobacterium Desmonostoc Muscorum, Permeabilizes Phospholipid Membranes by Reducing Their Fluidity. Chem Res Toxicol. 2015 Feb 16;28(2):216-24.

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

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