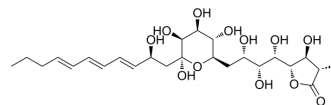


## Retinestatin

Cat. No.:	HY-N12657
Molecular Formula:	C <sub>25</sub> H <sub>40</sub> O <sub>12</sub>
Molecular Weight:	532.58
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Retinestatin, a new polyol polyketide, can protect SH-SY5Y dopaminergic cells from MPP <sup>+</sup> (HY-W008719)-induced cytotoxicity. Retinestatin shows neuroprotective effects in an in vitro model of Parkinson's disease <sup>[1]</sup> .	
In Vitro	Retinestatin (10 μM; pretreated for 24 h) significantly attenuates MPP <sup>+</sup> (2 mM; 24 h)-induced cytotoxicity in SH-SY5Y dopaminergic neurons <sup>[1]</sup> .	
	Retinestatin (10 μM; pretreated for 24 h) rescues the downregulated Bcl-xL and upregulated Bak expression induced by MPP <sup>+</sup> <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:	SH-SY5Y human neuroblastoma cells
	Concentration:	10 μM
	Incubation Time:	Pretreated for 24 h
	Result:	Significantly attenuated MPP <sup>+</sup> -induced cytotoxicity in SH-SY5Y dopaminergic neurons.
	RT-PCR <sup>[1]</sup>	
	Cell Line:	SH-SY5Y human neuroblastoma cells
Concentration:	10 μM	
Incubation Time:	Pretreated for 24 h	
Result:	Rescued the downregulated Bcl-xL and upregulated Bak expression induced by MPP <sup>+</sup> .	

### REFERENCES

[1]. Thanh-Hau Huynh, et al. Retinestatin, a Polyol Polyketide from a Termite Nest-Derived Streptomyces sp. J Nat Prod. 2024 Mar 5.

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

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