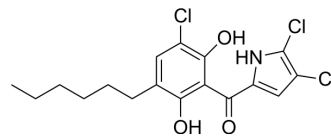


## Celastramycin A

Cat. No.:	HY-122292
CAS No.:	188988-62-7
Molecular Formula:	C <sub>17</sub> H <sub>18</sub> Cl <sub>3</sub> NO <sub>3</sub>
Molecular Weight:	390.69
Target:	Antibiotic; Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Celastramycin A is an antibiotic isolated from *Streptomyces* MaB-QuH-8, which exhibits antimicrobial activity against series of gram-negative bacteria and mycobacteria, with MICs between 0.05-3.1 µg/ml<sup>[1]</sup>. Celastramycin A exhibits immunosuppressing efficacy in ex vivo *Drosophila* through immune deficiency pathway (IC<sub>50</sub> of 0.008 µg/ml), inhibits the immunoresponse in human innate immunity through TNF-α signaling, inhibits IL-8 production in HUEVCs with IC<sub>50</sub> of 0.06 µg/ml<sup>[2]</sup>.

### REFERENCES

- [1]. Pullen C, et al., New and bioactive compounds from *Streptomyces* strains residing in the wood of Celastraceae. *Planta*. 2002 Nov;216(1):162-7.
- [2]. Kikuchi H, et al., Revised structure and synthesis of celastramycin a, a potent innate immune suppressor. *Org Lett*. 2009 Apr 16;11(8):1693-5.

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

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