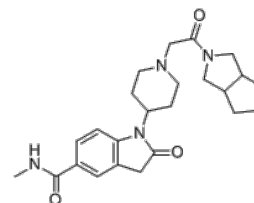


**Product Name** : ARN14494  
**Cat. No.** : PC-35857  
**CAS No.** : 1037837-27-6  
**Molecular Formula** : C<sub>24</sub>H<sub>32</sub>N<sub>4</sub>O<sub>3</sub>  
**Molecular Weight** : 424.545  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



### Biological Activity

ARN14494 (ARN-14494) is a potent, small molecule **serine palmitoyltransferase (SPT)** inhibitor with IC<sub>50</sub> of 27.3 nM. ARN14494 prevents the synthesis of pro-inflammatory cytokines TNF $\alpha$  and IL1 $\beta$ , growth factor TGF $\beta$ 1, and oxidative stress-related enzymes iNOS and COX2 in mouse primary cortical astrocytes. ARN14494 also exerts neuroprotective properties in primary cortical neurons. ARN14494 inhibits the synthesis of long-chain ceramides and dihydroceramides that are involved in AD progression, promotes neuronal survival after astrocyte amyloid beta 1-42 injury.

### References

De Vita T, et al. *ACS Chem Neurosci*. 2018 Nov 27. doi: 10.1021/acscchemneuro.8b00556.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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