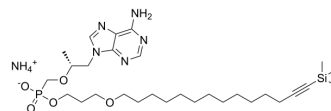


## Tenofovir-C3-O-C12-trimethylsilylacetylene ammonium

Cat. No.:	HY-139722
CAS No.:	2611373-74-9
Molecular Formula:	C <sub>29</sub> H <sub>55</sub> N <sub>6</sub> O <sub>5</sub> PSi
Molecular Weight:	626.84
Target:	HIV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Tenofovir-C3-O-C12-trimethylsilylacetylene (ammonium) exhibits substantially longer t<sub>1/2</sub> values than tenofovir in human liver microsomes, potent anti-HIV activity in vitro, and enhances pharmacokinetic properties in vivo. Tenofovir-C3-O-C12-trimethylsilylacetylene (ammonium) is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.

### REFERENCES

[1]. Pribut N, et al. ω-Functionalized Lipid Prodrugs of HIV NtRTI Tenofovir with Enhanced Pharmacokinetic Properties. J Med Chem. 2021 Sep 9;64(17):12917-12937.

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

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