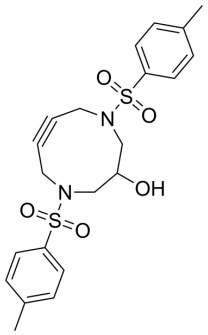
# DACN(Tos2,6-OH)

| | |
|---|---|
| **Cat. No.:** | HY-151754 |
| **CAS No.:** | 2109751-74-6 |
| **Molecular Formula:** | $C_{21}H_{24}N_2O_5S_2$ |
| **Molecular Weight:** | 448.56 |
| **Target:** | ADC Linker |
| **Pathway:** | Antibody-drug Conjugate/ADC Related |
| **Storage:** | Please store the product under the recommended conditions in the Certificate of Analysis. |



## BIOLOGICAL ACTIVITY

**Description**

DACN(Tos2,6-OH) is a click chemistry reagent containing an Azide. The alkyne moiety within the ring has a unique bent structure and high reactivity toward cycloaddition reactions. The reactivity of an alkyne heavily depends on the electronic and steric characteristics of the substituents as well as structural strain. In comparison to nonbent acyclic alkynes, cyclononyne alkynes show remarkably high reactivity. Such strain-promoted azide-alkyne cycloadditions (SPAAC) using cycloalkynes have served for reliable molecular conjugation in a broad range of fields. The nitrogens are used as connection points for a variety of functional units. In comparison to cyclooctynes, DACNs possess high thermal and chemical stability along with comparable click reactivity[1]. DACN(Tos2,6-OH) 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]. Kazunobu Igawa, et al. Thieme Chemistry Journals Awardees: Where Are They Now? One-Pot Synthesis of Versatile Buckle Units for Click Chemistry: 4,8-Diazacyclononynes (DACNs). Synlett 2017; 28(16): 2110-2114.



Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA