# 5'-O-DMT-PAC-dA

**Cat. No.:** HY-138606

**CAS No.:** 110522-82-2

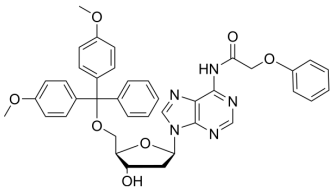
**Molecular Formula:** $C_{39}H_{37}N_5O_7$

**Molecular Weight:** 687.74

**Target:** DNA/RNA Synthesis; Nucleoside Antimetabolite/Analog

**Pathway:** Cell Cycle/DNA Damage

**Storage:** 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 250 mg/mL (363.51 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 1.4540 mL | 7.2702 mL | 14.5404 mL |
| | 5 mM | 0.2908 mL | 1.4540 mL | 2.9081 mL |
| | 10 mM | 0.1454 mL | 0.7270 mL | 1.4540 mL |

Please refer to the solubility information to select the appropriate solvent.

**In Vivo**

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (3.02 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

5'-O-DMT-PAC-dA can be used in the synthesis of oligoribonucleotides[1].

## REFERENCES

[1]. Schulhof JC, et, al. The final deprotection step in oligonucleotide synthesis is reduced to a mild and rapid ammonia treatment by using labile base-protecting groups. Nucleic Acids Res. 1987 Jan 26;15(2):397-416.

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

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