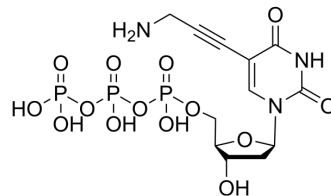


5-PA-dUTP

Cat. No.:	HY-132141
CAS No.:	179101-49-6
Molecular Formula:	C ₁₂ H ₁₈ N ₃ O ₁₄ P ₃
Molecular Weight:	521.2
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	Solution, -20°C, 2 years



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 125 mg/mL (239.83 mM; Need ultrasonic)
----------	---

BIOLOGICAL ACTIVITY

Description	5-PA-dUTP (5-Propargylamino-dUTP) is a C5-modified nucleotide and can be incorporated into DNA nanoparticles (DNPs) for photosensitizer delivery ^[1] . 5-PA-dUTP 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]. Kyoung-Ran Kim, et al. Shaping Rolling Circle Amplification Products into DNA Nanoparticles by Incorporation of Modified Nucleotides and Their Application to In Vitro and In Vivo Delivery of a Photosensitizer. *Molecules*. 2018 Jul 23;23(7):1833.

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

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