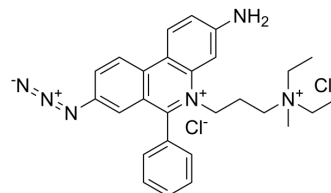


Propidium monoazide

Cat. No.:	HY-D1444
CAS No.:	91416-20-5
Molecular Formula:	C ₂₇ H ₃₂ Cl ₂ N ₆
Molecular Weight:	511.49
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



BIOLOGICAL ACTIVITY

Description

Propidium monoazide is a photoreactive DNA-binding dye that preferentially binds to dsDNA. Propidium monoazide (PMA) prevents DNA from dead bacteria from being amplified during the PCR. PMA-PCR enhanced both the specificity and the sensitivity of PCR^[1]. Propidium monoazide is a click chemistry reagent, it contains an Azide group and can undergo copper-catalyzed azide-alkyne cycloaddition reaction (CuAAC) with molecules containing Alkyne groups. Strain-promoted alkyne-azide cycloaddition (SPAAC) can also occur with molecules containing DBCO or BCN groups.

REFERENCES

[1]. Mohamed Askar 1, et al. Propidium monoazide-polymerase chain reaction for detection of residual periprosthetic joint infection in two-stage revision. Mol Biol Rep. 2019 Dec;46(6):6463-6470.

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

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