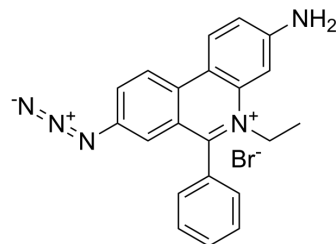


## Ethidium monoazide bromide

Cat. No.:	HY-D1246
CAS No.:	58880-05-0
Molecular Formula:	C <sub>21</sub> H <sub>18</sub> BrN <sub>5</sub>
Molecular Weight:	420.31
Target:	DNA Stain
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Ethidium monoazide bromide is a DNA intercalating fluorescent dye that enters bacteria with damaged membranes. Ethidium monoazide bromide can be covalently linked to DNA by photoactivation. Ethidium monoazide bromide stains only dead cells<sup>[1]</sup>. Ethidium monoazide (bromide) 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]. Nogva HK, et al. Ethidium monoazide for DNA-based differentiation of viable and dead bacteria by 5'-nuclease PCR. *Biotechniques*. 2003 Apr;34(4):804-8, 810, 812-3.

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

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