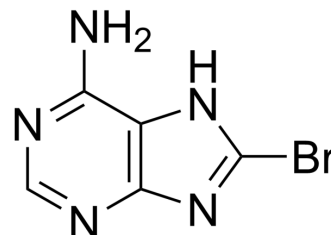


8-Bromoadenine

Cat. No.:	HY-W076740
CAS No.:	6974-78-3
Molecular Formula:	C ₅ H ₄ BrN ₅
Molecular Weight:	214.02
Target:	DNA/RNA Synthesis; Biochemical Assay Reagents
Pathway:	Cell Cycle/DNA Damage; Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description	8-Bromoadenine (8-Bromo-9H-purin-6-amine) is a DNA radiosensitizer that inhibits DNA single-strand break repair in cells. 8-Bromoadenine is a brominated derivative of adenine, and radioactive adenine can be prepared by replacing bromine with deuterium ^{[1][2]} .
In Vitro	8-Bromoadenine (0.1 mM; 30-90 min) inhibits DNA single-strand break repair in HeLa-M cell monolayer cultures. And after γ irradiation, the quality of DNA synthesized by cells is lower than that of DNA synthesized by cells without purine addition ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Tkalic AV, et al. Effect of 8-bromoadenine on DNA repair[J]. Tsitologija, 1980, 22(8): 994-997.
- [2]. Radioactively marked nucleic acid units. German Democratic Republic, DD106383 A1 1974-06-12.

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

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