

Product Datasheet

Aldehyde reactive probe

Catalog No. **BP-02396** · CAS **627090-10-2** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-14**

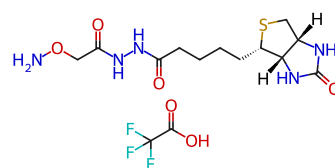
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Target Biochemical Assay Reagents; Fluorescent Dye	Research area Others
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Molecular formula **C₁₄H₂₂F₃N₅O₆S**

Molecular weight **445.4150**

STRUCTURE



DESCRIPTION

Aldehyde reactive probe (TFA) is a biotinylated reagent for the detection and quantification of AP sites in damaged DNA[1].

BIOLOGICAL ACTIVITY

In Vitro

Aldehyde reactive probe TFA (100 μL; 1 h at 37 °C) detects AP sites and related aldehyde-containing damages in DNA isolated from heat-inactivated, X-irradiated E. coli AB1157 cells, with signal intensity proportional to radiation dose[1].

Aldehyde reactive probe TFA (100 μL; 1 h at 37 °C) detects AP sites formed in the DNA of MMS-treated E. coli AB1157 cells. Its signal is proportional to the concentration of MMS and decreases during the repair process after treatment[1].

Aldehyde reactive probe TFA (2 mM; 1 h) specifically reacts with apurinic sites in acid-apurinated yeast tRNAPhe, and its reaction activity is directly proportional to the degree of apurination

SOLUBILITY

soluble in DMSO

In vitro DMSO : 25 mg/mL

REFERENCES

[1]. Kubo K, et al. A novel, sensitive, and specific assay for abasic sites, the most commonly produced DNA lesion. Biochemistry. 1992;31(14):3703-3708.

[2]. Tanaka M, et al. An assay for RNA oxidation induced abasic sites using the Aldehyde Reactive Probe. Free Radic Res. 2011;45(2):237-247.

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Lot CoA and SDS are separate documents.