



Europa Bioproducts Ltd

15-17 North Street • Wicken  
Ely • Cambridge • CB7 5XW  
Tel: 0044 (0)1353-721118  
Fax: 0044 (0)1353-624589

## ARP (Aldehyde Reactive Probe)

Item#    Unit Size  
A305-10    10 mg

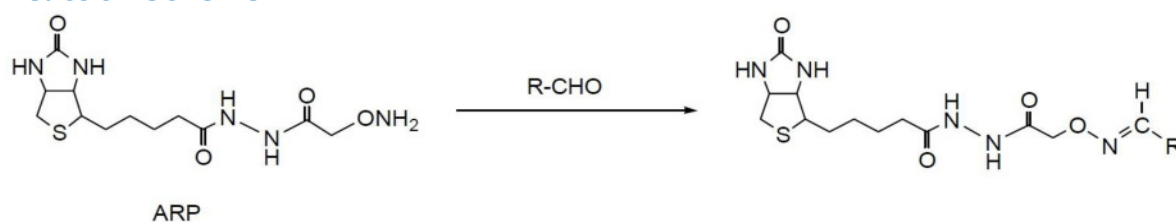
**Chemical Name:** *N*-(Aminoxyacetyl)-*N'*-biotinyl-hydrazine  
**CAS:** 139585-03-8  
**Appearance:** White powder  
**Purity:** ≥95.0% (HPLC) **MW:**  
331.39, C<sub>12</sub>H<sub>21</sub>N<sub>5</sub>O<sub>4</sub>S

**Storage Condition:** -20°C  
**Shipping Condition:** ambient temperature

### Product Description

Aldehyde reactive probe (ARP) is used to detect abasic sites (AP sites, depurine/depyrimidine sites) in DNA because of its aldehyde-specific reactivity. ARP reacts with aldehyde and ketone groups, and it adds biotin to AP sites in DNA. The biotin-tagged DNA is then detected using peroxidase-labeled avidin and oxidative chromogenic dyes. The ARP method has been used to detect less than 1 AP site in 1x10<sup>4</sup> nucleotides of DNA. Dojindo offers a DNA Damage Quantification Kit (Product Code: DK02) containing all the reagents and components necessary to determine 1 to 40 ARP sites per 1x10<sup>5</sup> base pairs. ARP is highly soluble in water and the stock solution can be stored at 4°C for one year without significant loss of reactivity.

### Reaction Scheme



CERTIFICATE NO. 3222

E-mail: [info@europa-bioproducts.com](mailto:info@europa-bioproducts.com)

Web site: <http://www.europa-bioproducts.com>

Registered Office: 15-17 North Street, Wicken, Ely, Cambridgeshire CB7 5XW

Registered Number: 2703381