# APF

## Fluorescent probe for hROS detection

Fluorescent reagent (Ex(max): 490nm; Em(max): 515nm) for the detection of highly reactive oxygen species (hROS). Immediately reacts with hROS such as hydroxyl radical, peroxynitrite and hypochlorite, and the fluorescence intensity greatly increases. Use of APF together with HPF (Prod. No. ALX-620-074) also allows for specific detection of hypochlorite ($^{-}$OCl) to elucidate reliable the roles of $^{-}$OCl in biological systems such as neutrophils. In addition, peroxynitrite can be detected in distinction from nitric oxide and superoxide since APF does not react with nitric oxide, superoxide and hydrogen peroxide. Moreover, APF is resistant to light-induced autooxidation. *Not for sale in Japan.*

**Citations:** 4 View Online »

## Ordering Information Order Online »

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|---|---|
| **ALX-620-075-M001** | 1mg |

## Manuals, SDS & CofA View Online »

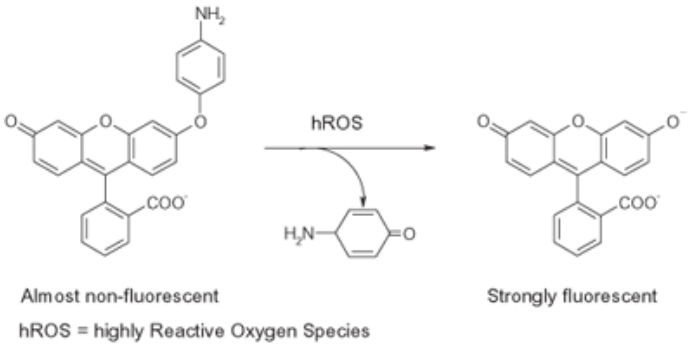



**Figure 1:** Reaction of Aminophenyl Fluorescein (APF) with hROS.

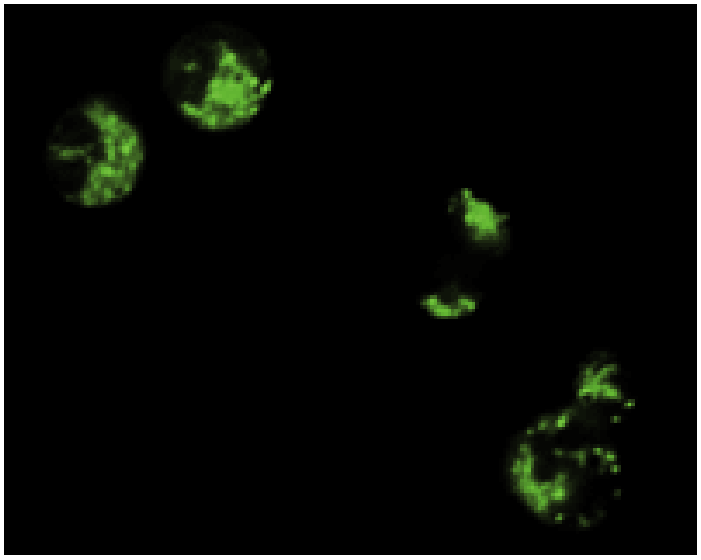
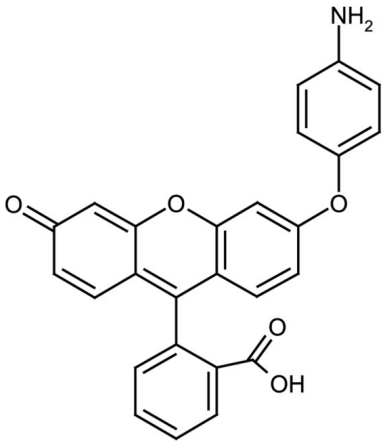


**Figure 6:** Fluorescence image of hypochlorite (¯OCl) which was generated in porcine neutrophils using APF.



## Handling & Storage

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|---|---|
| **Use/Stability** | As indicated on product label or CoA when stored as recommended. Prepare 500-5'000-fold dilution (~10-1µM) in phosphate buffer (0.1M phosphate, pH 7.4) immediately before use. BSA, phenol red and amines may affect the fluorescence and must be used with caution. Do not store the dilutions. |
| **Handling** | After opening, prepare aliquots and store at +4°C. Protect from light. Keep under inert gas. |
| **Long Term Storage** | +4°C |
| **Shipping** | Blue Ice |

## Regulatory Status

RUO - Research Use Only

## Product Details

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|---|---|
| **Alternative Name** | Aminophenyl fluorescein, 2-[6-(4′-Amino)phenoxy-3H-xanthen-3-on-9-yl]benzoic acid |
| **Appearance** | Pale yellow liquid. |
| **CAS** | 359010-70-1 |
| **Formula** | $C_{26}H_{17}NO_5$ |
| **Formulation** | Dissolved in 0.47ml dimethyl formamide. |
| **MW** | 423.4 |
| **Purity** | ≥98% (HPLC) |

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