

FT-76894A



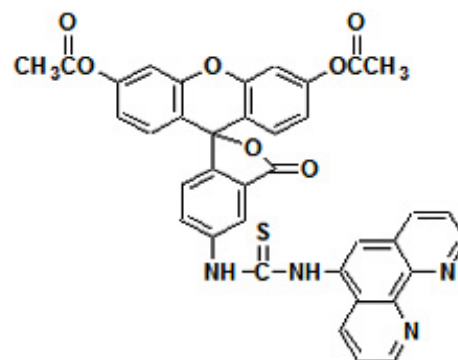
## FPhen Green Metal Indicators

FPhen Green dyes are fluorescent heavy metal indicator for detection of broad range of ions, including  $\text{Cu}^{2+}$ ,  $\text{Cu}^+$ ,  $\text{Fe}^{2+}$ ,  $\text{Hg}^{2+}$ ,  $\text{Pb}^{2+}$ ,  $\text{Cd}^{2+}$ ,  $\text{Zn}^{2+}$  and  $\text{Ni}^{2+}$

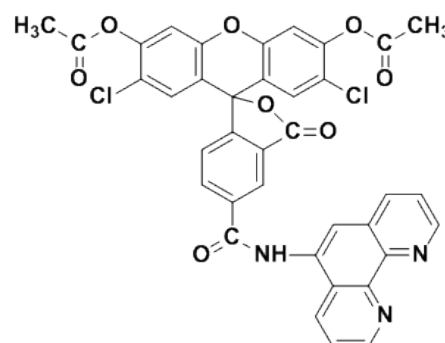
### Products Description

Diacetate forms are cell-Permeant and emit fluorescence after hydrolysis by intracellular esterases.

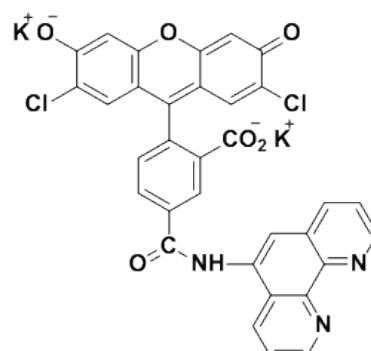
**Name :** FPhen Green FL Diacetate  
**Catalog Number :** Syn.: PhenanGreen FL Diacetate  
 FP-76894A, 1mg  
**Molecular Weight :** MW= 668,68  
**Solubility:** DMSO, DMF and  $\text{CH}_3\text{OH}$   
**Absorption / Emission :**  $\lambda_{\text{exc}} \lambda_{\text{em}}$  ( $\text{CH}_3\text{OH}$ ) = 267 nm / none  
 EC: 45 000  $\text{cm}^{-1} \text{M}^{-1}$



**Name :** FPhen Green SK Diacetate  
**Catalog Number :** Syn.: PhenanGreen SK Diacetate  
 FP-M2043A, 1mg  
**Molecular Weight :** MW= 706.5  
**Solubility:** DMSO, DMF and  $\text{CH}_3\text{OH}$   
**Absorption / Emission :**  $\lambda_{\text{exc}} \lambda_{\text{em}}$  ( $\text{CH}_3\text{OH}$ ) = 267 nm / none  
 EC: 40 000  $\text{cm}^{-1} \text{M}^{-1}$



**Name :** FPhen Green SK Potassium salt  
**Catalog Number :** Syn.: PhenanGreen SK Potassium salt  
 FP-M2042A, 1mg  
**Molecular Weight :** MW= 698.6  
**Solubility:** DMSO, DMF and  $\text{CH}_3\text{OH}$   
**Absorption / Emission :**  $\lambda_{\text{exc}} \lambda_{\text{em}}$  ( $\text{CH}_3\text{OH}$ ) = 507 / 532 nm  
 EC: 82 000  $\text{cm}^{-1} \text{M}^{-1}$



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**Storage:** -20°C. Protect from light and moisture

## Directions for use

### Guidelines for use

Protocol may be found in the literature.

### References

- **Chavez-Crooker P** *et al.* Copper transport by lobster hepatopancreatic epithelial cells separated by centrifugal elutriation: measurements with the fluorescent dye Phen Green. *J Exp Biol* 204, 1433-1444 (2001)
- **Haigh CL** *et al.*, Dominant roles of the polybasic proline motif and copper in the PrP23-89-mediated stress protection response, *J. Cell Sci.*, 122: 1518 - 1528 (2009) [Abstract](#)
- **Korge P** *et al.*, Reactive Oxygen Species Production in Energized Cardiac Mitochondria During Hypoxia/Reoxygenation: Modulation by Nitric Oxide, *Circ. Res.*, 103: 873 - 880 (2008) [Article](#)
- **Tai JH** *et al.*, Imaging Islets Labeled With Magnetic Nanoparticles at 1.5 Tesla, *Diabetes*, 55: 2931 - 2938 (2006) [Article](#)

## Technical and scientific information

### Related products

- Calcein AM, [FP-895514](#)
- 1,10-phenanthroline, [N12740](#)

## Ordering information

[Catalog size quantities and prices may be found at www.interchim.com/](http://www.interchim.com/)

Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : FluoProbes® / Interchim; Hotline : +33(0)4 70 03 73 06

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rev.S02E-N00V