

# pHrodo™ iFL STP ester, amine reactive dyes

Pub. No. MAN0016951 Rev. A

For detailed protocol, visit the product page at [www.thermofisher.com](http://www.thermofisher.com).

Product	Cat. No.	Amount	Ex/Em*	MW
pHrodo™ iFL Red STP ester, amine reactive dye	P36010	1 mg	560/585	~1000
	P36011	3 × 100 µg		
pHrodo™ iFL Green STP ester, amine reactive dye	P36012	1 mg	505/525	~1000
	P36013	3 × 100 µg		

\*Excitation/Emission maxima for the dye, in nm.

## Storage

Store dessicated and protected from light at ≤-20°C. When stored as directed, the product is stable for at least 6 months.

For Research Use Only. Not for use in diagnostic procedures.

**ThermoFisher**  
SCIENTIFIC

1. Prepare a ~10 mM stock solution of amine-reactive pHrodo™ iFL dye by resuspending it in anhydrous DMSO (150 µL DMSO per 1 mg dye or 75 µL DMSO per 500 µg dye).
2. Add the appropriate amount of pHrodo™ iFL dye to the compound in 0.1 M sodium bicarbonate buffer, pH 8.4.
  - for a purified protein, use 3–20X molar excess of pHrodo™ iFL dye
  - for purified IgG, use 10–20X molar excess of pHrodo™ iFL dye
  - for bacteria, add pHrodo™ iFL dye to 750 µL of 20 mg/mL bacteria to obtain a final concentration of 0.5–1 M
3. React for 10–60 minutes at room temperature, in the dark.
4. Remove unreacted dye from the conjugate.
  - for proteins and IgG, use size exclusion purification or dialysis
  - for bacteria, wash 1X with HBSS, then wash 2X with methanol

The information in this guide is subject to change without notice.

#### DISCLAIMER

TO THE EXTENT ALLOWED BY LAW, LIFE TECHNOLOGIES AND/OR ITS AFFILIATE(S) WILL NOT BE LIABLE FOR SPECIAL, INCIDENTAL, INDIRECT, PUNITIVE, MULTIPLE, OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH OR ARISING FROM THIS DOCUMENT, INCLUDING YOUR USE OF IT.

**Important Licensing Information:** These products may be covered by one or more Limited Use Label Licenses. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses.

**Corporate entity:** Life Technologies | Carlsbad, CA 92008 USA | Toll Free in USA 1.800.955.6288

© 2017 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific and its subsidiaries unless otherwise specified.

For support visit [thermofisher.com/support](https://thermofisher.com/support)  
[thermofisher.com](https://thermofisher.com)

**ThermoFisher**  
SCIENTIFIC