

Product Data Sheet

Date of Issue: 26 Nov 2019

1. Product Information

- Product Name : NpFlamma® ROS 380
- Catalog Number : SSH0001
- Packing Unit : 1 mg / 5 mg / 25 mg
- Appearance : White Solid
- Storage Conditions : Protect from light at -20 °C

2. Additional Information

- Fluorophore Label : NpFlamma® ROS 380
- Reactive with : Hydrogen peroxide
- Excitation _{Max} : 380 nm
- Emission _{Max} : 450 nm

3. Description

NpFlamma® ROS 380 comprised of a physical assembly of H2O2 reactive fluorophore and catalytic additive into an amphiphilic stabilization colloid. This versatile reactive nanoparticle is hardly fluorescent in inactivated state yet displays a strong red-shifted emission upon oxidized by H2O2. The maxima of excitation/emission are at 380/450 nm. Since the emission is achieved by a chemical reaction, the interference between background fluorescence and the excitation light irradiation cannot occur. NpFlamma® ROS 380 allows a real-time imaging of low-level H2O2 involved in cellular processes along with oxidative stress. We offer NpFlamma® ROS 380 as a quantitative H2O2 selective fluorescence probe for biological and physiological analysis involving oxidative cell processes.

WARNING: Intended for research use only. This product is not intended or approved for human, diagnostics, therapeutic or veterinary use. Use of this product for human or animal testing is extremely hazardous and may result in disease, severe injury, or death. MATERIAL SAFETY DATA: Review the complete Material Safety Data Sheet before use Material Safety Data Sheet (MSDS), Certificate of Analysis (COA) and Technical Information are available at http://www.bioacts.com or upon request.