

## RatioWorks™ PH165

Catalog Number: 21213 Unit Size: 10x50 ug

## **Product Details**

Storage Conditions Freeze (< -15 °C), Minimize light exposure,

Expiration Date 12 months upon recieving

## **Chemical Properties**

Chemical Properties		
Appearance	Solid	
Molecular Weight	517.54	
Soluble In	DMSO	
Spectral Properties		
Excitation Wavelength	463 nm	
Emission Wavelength	641 nm	

## **Applications**

RatioWorks™ PH165 is a novel fluorescent probe designed for pH measurement in solution, featuring pH-dependent fluorescence spectra and unique dual excitation and dual emission properties. At low pH, RatioWorks™ PH165 is weakly fluorescent in the far-red spectrum region and highly fluorescent in the red spectrum region. As pH increases, it shows higher fluorescence in the far-red spectrum and lower fluorescence in the red spectrum. This probe quantifies pH in the 4 to 9 range, utilizing dual excitation/emission at 497/594 nm and 578/654 nm, respectively, and has a pKa of ~7.1. The red fluorescence spectrum of RatioWorks™ PH165 makes it suitable for multiplexing tests with green fluorophores like GFP. RatioWorks™ PH165 AM is cell-permeable and compatible with platforms such as fluorescence microscopy and microplate readers.