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21505 - OxiVision Green™ hydrogen peroxide sensor

Cat # 21505 Storage F/D/L
Ex (nm) 490 Em (nm) 514
MW Solvent DMSO

Despite the importance of H₂O₂ to human health and disease, the molecular mechanisms of its production, accumulation, trafficking, and function are insufficiently understood due to the lack of sensitive and specific H₂O₂ sensors that can be used in live cells. The limitations of currently available H₂O₂-responsive probes include interfering background fluorescence from other ROS, the need for an external activating enzyme, lack of water solubility or compatibility, and/or excitation profiles in the ultraviolet region. OxiVision Green™ hydrogen peroxide sensor is non-fluorescent and displays no absorption in the visible region. The addition of H₂O₂ triggers a prompt fluorescence increase with concomitant growth of a visible wavelength absorption band. This probe has a large dynamic range owing to its binary absorption/emission response. The fluorescence response of OxiVision Green™ hydrogen peroxide sensor is H₂O₂-selective. OxiVision Green™ hydrogen peroxide sensor exhibits a >100-fold selectivity for H₂O₂ over similar ROS such as O₂⁻, NO, or -OCl.

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