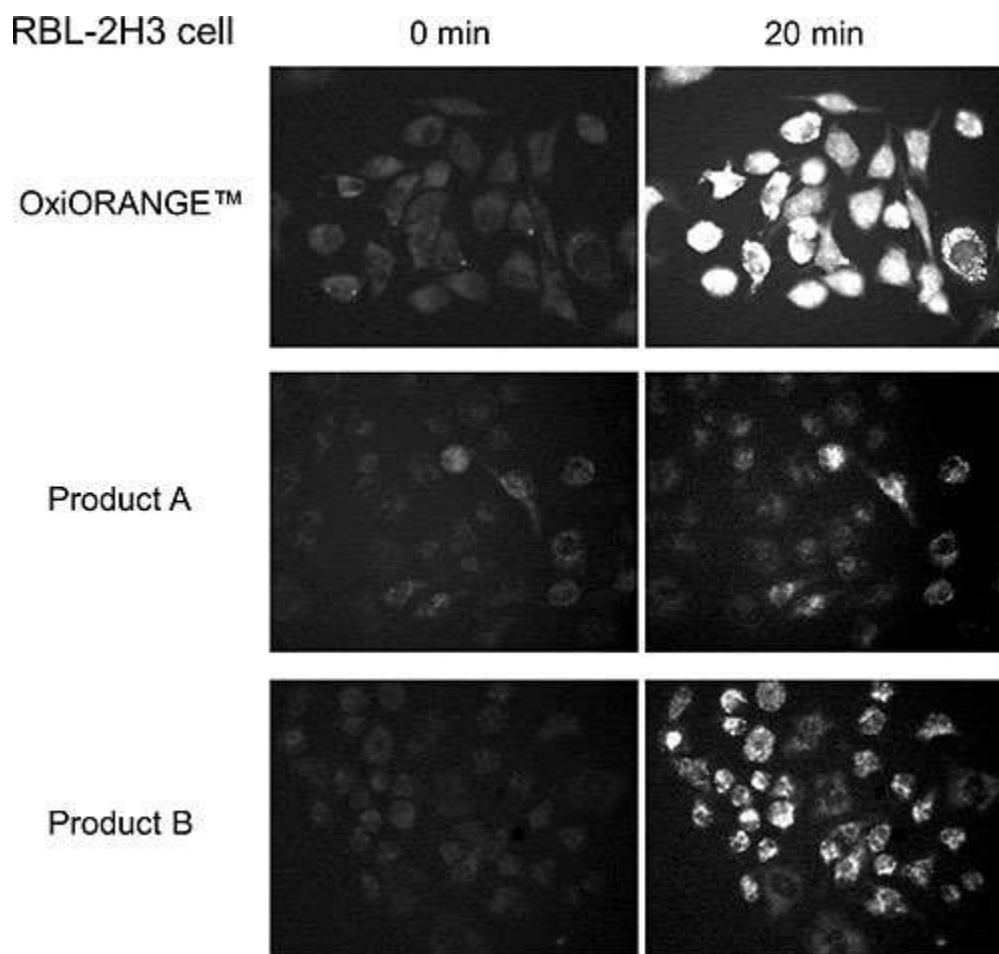


# OxiORANGE™

Code No.	Material	Contents	Storage	Stability
GC3004-01	OxiORANGE™	100 nmol × 5	Store at ≤-20° C, desiccated and protected from light.	1 year (unopened)

**OxiORANGE™** is an orange fluorescent probe designed to detect highly reactive oxygen species (hROS). Inherently it has no fluorescence. It fluoresces upon reaction with hydroxy radical ( $\cdot\text{OH}$ ) or with hypochlorous acid (HClO). The probe tends to localize in *mitochondria* because of its positive charges. Cell permeable OxiORANGE™ is *suitable for live-cell imaging*. It is also suitable for time-lapse imaging because of its high photostability. OxiORANGE™ can also be imaged after a 20 minute fixation with 3-4% paraformaldehyde.



Comparison between mitochondria-localizing probes to detect oxidative stress. RBL-2H3 cells loaded with 1  $\mu\text{M}$  of OxiORANGE™ (above), product A (center), or product B (bottom) were stimulated by the addition of 0.5  $\mu\text{M}$  H<sub>2</sub>O<sub>2</sub>. Photos were taken just after the addition of the probes (left) and 20 minutes later (right) in the same excitation/observation conditions. OxiORANGE™ shows the brightest fluorescence among these products. Product B migrated into nucleus. In contrast, localization of OxiORANGE™ was stable.