

## Rhod-4™ maleimide

Catalog Number: 21127  
Unit Size: 100 ug

## Product Details

Storage Conditions	Freeze (< -15 °C), Minimize light exposure
Expiration Date	12 months upon receiving

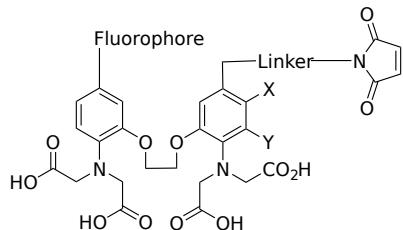
## Chemical Properties

Appearance Solid

Molecular Weight 893.86

Soluble In DMSO

## Chemical Structure



## Spectral Properties

Excitation Wavelength 523 nm  
Emission Wavelength 551 nm

## Applications

Rhod-4™ maleimide is an excellent building block that can be readily used to prepare a calcium-sensitive bioconjugate for monitoring calcium change spatially for a specific target. It can be selectively conjugated to thiol-containing biomolecules such as antibodies, thiol-modified oligos, or peptides containing a cysteine residue. Rhod-4™ is a fluorescent calcium indicator dye commonly used in cell biology and neuroscience research. It belongs to the family of rhodol-based calcium. Rhod-4™ is a high-affinity calcium indicator dye that exhibits changes in fluorescence intensity upon binding to calcium ions. When Rhod-4™ binds to calcium, its fluorescence intensity increases dramatically, allowing researchers to measure and monitor changes in calcium levels. Compared to the traditional Rhod-2, Rhod-4™ is a superior replacement. It is a valuable tool in calcium imaging research, enabling the detection and quantification of intracellular calcium dynamics. Its fluorescence properties and calcium binding specificity make it suitable for studying calcium signalling in various cell types and biological systems.