
Product Information Sheet

Ordering Information

Product Number: 21902
Product Name: Calcein Deep Red™
Unit Size: 1 mg
Storage Conditions: Freeze (<-15 °C), Desiccated, Avoid Light
Expiration Date: 12 months upon receiving

Chemical and Spectral Properties

Appearance: Solid
Molecular Weight: 373.66
Soluble In: DMSO
Excitation Wavelength: 646
Emission Wavelength: 659

Application Notes

Calcein AM is one of the most popular fluorescent probes used for labeling and monitoring cellular functions of live cells. However, the single color of Calcein AM makes it impossible to use this valuable reagent in the multicolor applications. For example, it is impossible to use Calcein AM in GFP-transfected cells due to the same color as GFP. To address this color limitation of Calcein AM, we have developed Calcein Orange™, Calcein Red™ and Calcein Deep Red™. These new Calcein AM analogs enable the multicolor labeling and functional analysis of live cells in combination with Calcein AM. Calcein Deep Red™ is the esterase-hydrolyzed product of Calcein Deep Red™ acetate in cells. Calcein Deep Red™ dye can be monitored with the common Cy5 filter set. It is used as a fluorescence reference standard for Calcein Deep Red™ acetate.