
Product Information Sheet

Ordering Information

Product Number:	21301
Product Name:	Sulfide Green™ AM
Unit Size:	10x50 ug
Storage Conditions:	Freeze (<-15 °C), Minimize light exposure
Expiration Date:	12 months upon receiving

Chemical and Spectral Properties

Appearance:	Solid
Molecular Weight:	~700
Soluble In:	DMSO
Excitation Wavelength:	N/A
Emission Wavelength:	N/A

Application Notes

Sulfide Green™ AM is a fluorogenic probe for detecting hydrogen sulfide in live cells. It is cell-permeable for use in live cell for imaging sulfide anion or hydrogen sulfide. Sulfide Green™ AM contains the hydrophobic acetoxymethyl ester groups, making it cell-permeable. When Sulfide Green™ AM gets in live cells, its AM moieties are cleaved by esterases. The esterase-induced hydrolysis of Sulfide Green™ AM generates a negatively charged fluorogenic product that is well retained in cells. Upon reaction with sulfide or hydrogen sulfide, Sulfide Green generates strong green fluorescence that is proportional to sulfide concentration. The activation of Sulfide Green™ AM has been shown to detect as low as nM sulfide anion in cells.