

Thiolite™ Blue

Catalog number: 21507

Unit size: 5 mg

Product Details

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

Chemical Properties

Appearance	Solid
Molecular Weight	289.24
Soluble In	DMSO

Spectral Properties

Excitation Wavelength	335 nm
Emission Wavelength	460 nm

Applications

Thiolite™ Blue is one of the most sensitive sensors for measuring thiol compounds. It gives a blue fluorescent adduct upon reacting with thiol compounds (such as GSH and cysteine). It can be used to quantifying the number of cysteines on a protein. We have used it to measure glutathione fluorimetrically. It has >200-fold fluorescence enhancement upon reaction with thiol-containing compounds. Thiolite™ Blue is an excellent replacement for mBBr (monobromobimane) due to their similar spectral properties. Compared to mBBr, the thiol adduct of Thiolite™ Blue has much stonger fluorescence and absorption than that of mBBr, making it a much more sensitive thiol probe than bromobimanes.