

abberior STAR 635, maleimide, 1 mg

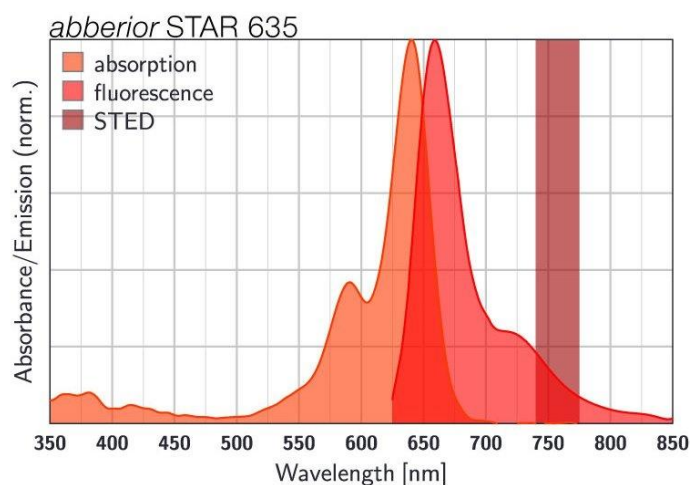
Item number

ST635-0003-1MG

Description

abberior STAR 635 is a dye developed for STED and confocal imaging in the red spectral region. It features exceptional photostability, very high brightness and low background labeling. abberior STAR 635 can be excited with lasers at wavelength between 630 - 650 nm. For STED, a depletion wavelength around 750 - 800 nm is recommended. Our abberior STAR 635 can substitute dyes like ATTO® 647N, Alexa Fluor® 647, or Cy5®. Best results are obtained with freshly prepared samples.

The maleimide is used for conjugating a fluorescent dye to a thiol group (cysteine residues) on a protein or thio-modified molecules. The resulting abberior conjugate will show a bright fluorescence and photostability. abberior offers labeling protocols for labeling of antibodies via thiol-reactive groups.



Properties

Absorption	λ_{ex} [nm]	635
Extinction Coefficient	ϵ_{max} [$M^{-1}cm^{-1}$]	110000
Emission	λ_{em} [nm]	655
Quantum Efficiency	η_f [%]	88
STED min.	$\lambda_{STED min}$ [nm]	750
STED max.	$\lambda_{STED max}$ [nm]	800
Fluorescence Lifetime	τ_f [ns]	2.8
Correction Factor 260	CF_{260}	0.26
Correction Factor 280	CF_{280}	0.38
Charge	Δq	0
Molecular Weight	MW [g/mol]	1018.1
Derivative/Conjugate	Maleimide	

Photophysical properties were measured for carboxylic acid in PBS pH 7.4.



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Storage

The product contains a vial of lyophilized powder and is shipped at room temperature. Upon arrival, please store the product at -20 °C. For proper long-term storage up to one year, protect the product from light and moisture.

- Our abberior maleimides are freeze-dried and should be dissolved only shortly before the coupling reaction. Recommended solvents include amine- and water-free DMF, DMSO, or acetonitrile.