

abberior STAR 635P, carboxylic acid, 1 mg

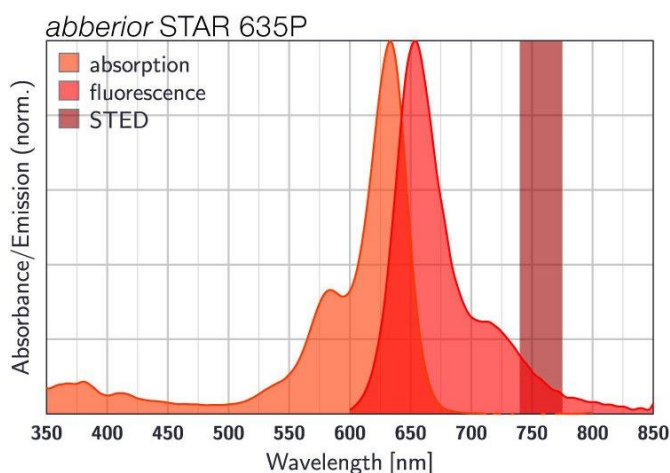
Item number

ST635P-0001-1MG

Description

abberior STAR 635P was the first member of an entirely new class of fluorescent dyes introduced exclusively by abberior: the class of phosphorylated fluorescent dye. This dye excels in its photophysical parameters, it is very bright, very photostable and its high water solubility enables basically background-free imaging. abberior STAR 635P can be excited with lasers at wavelength between 630 - 650 nm. For STED, a depletion wavelength around 750 - 800 nm is recommended. abberior STAR 635P is the ideal partner for abberior STAR 580 or abberior STAR ORANGE to obtain optimal 2 color STED results. Our abberior STAR 635P can substitute ATTO® 647N, Alexa Fluor® 647, or Cy5®. Best results are obtained with freshly prepared samples.

Organic fluorescent dye for microscopy.



Properties

Absorption	λ_{ex} [nm]	638
Extinction Coefficient	ϵ_{max} [M ⁻¹ cm ⁻¹]	120000
Emission	λ_{em} [nm]	651
Quantum Efficiency	η_{fl} [%]	90
STED min.	$\lambda_{\text{STED min}}$ [nm]	750
STED max.	$\lambda_{\text{STED max}}$ [nm]	800
Fluorescence Lifetime	τ_{fl} [ns]	3.3
Correction Factor 260	CF ₂₆₀	0.21
Correction Factor 280	CF ₂₈₀	0.4
Charge	Δq	-3
Molecular Weight	MW [g/mol]	933.7
Derivative/Conjugate	Carboxylic acid	

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

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 carboxylic acid derivatives come as a freeze-dried powder and should be dissolved in DMF, DMSO, or acetonitrile.