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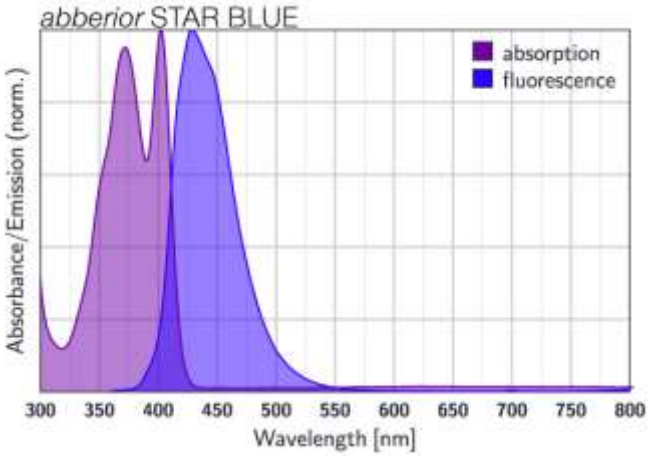
abberior STAR BLUE, phalloidin, 300 units

Item number

STBLUE-0100-300U

Description

abberior STAR BLUE extends the abberior dye portfolio into the blue spectral range. It is designed for confocal microscopy and provides reliable performance with low background signal. abberior STAR BLUE can be excited with lasers in the 400–420 nm range and is a suitable replacement for dyes such as DyLight® 405. In combination with abberior STAR GREEN, abberior STAR ORANGE, and abberior STAR RED, abberior STAR BLUE enables versatile 4-color imaging across a broad spectral range. Best results are obtained with freshly prepared samples.



Fluorescent dye conjugate of phalloidin are used to stain F-actin. The high specificity of phalloidin offers significant advantages over antibodies for actin labeling.

Properties

Absorption	λ_{ex} [nm]	401
Extinction Coefficient	ε_{max} [$M^{-1}cm^{-1}$]	35000
Emission	λ_{em} [nm]	429
Quantum Efficiency	η_{fl} [%]	93
Fluorescence Lifetime	τ_{fl} [ns]	3.5
Correction Factor 260	CF_{260}	0.3
Correction Factor 280	CF_{280}	0.7
Charge	Δq	-3
Molecular Weight	MW [g/mol]	1398.3
Derivative/Conjugate		Phalloidin

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Storage

Our abberior phalloidin probes are freeze-dried and shipped at room temperature. Upon arrival, the product can be stored for up to one year at –20 °C. Shortly before the staining procedure dissolve the probe in DMF or DMSO. Once dissolved the stock solutions should be kept at –20 °C, protected from light and moisture.

- Reconstitute the vial in 1.5 mL of DMF or DMSO to obtain a stock solution of 200 units/mL. We recommend diluting this stock solution 1:200 to prepare a staining solution with a final concentration of 1 unit/mL.
- Depending on solvent quality the shelf-life of the stock solutions might be significantly reduced compared to the phalloidin conjugate in its solid form. Repeated freeze-thaw cycles can be avoided by splitting the dissolved compound into smaller aliquots.