

abberior FLUX 640, carboxylic acid, 1 mg

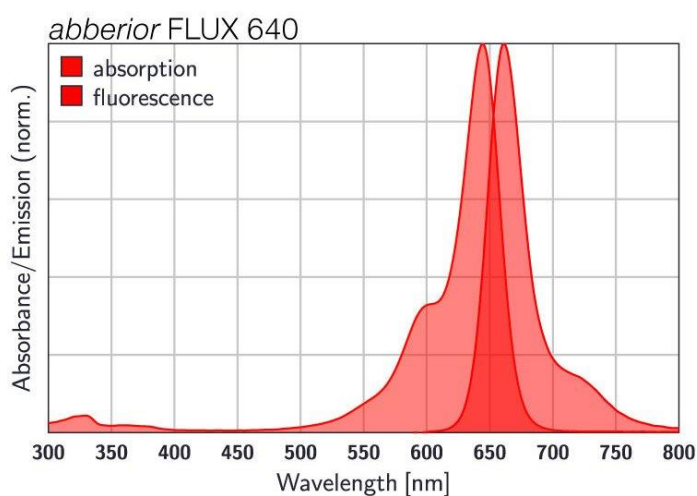
Item number

FX640-0001-1MG

Description

abberior FLUX 640 is a dye developed for MINFLUX imaging in the red spectral region. It combines exceptional photostability, high brightness, and low background labeling with photoswitching kinetics optimized for MINFLUX imaging. abberior FLUX 640 can be applied with excitation laser wavelengths between 630 - 650 nm together with a detection window between 650 - 750 nm. For MINFLUX imaging abberior FLUX 640 is used with MINFLUX imaging buffers such as GLOX buffer. Our abberior FLUX 640 can substitute dyes like Alexa Fluor® 647, or Cy5®. The combination of abberior FLUX 640 and abberior FLUX 680 is recommended for 2 color MINFLUX imaging.

Organic fluorescent dye for microscopy.



Properties

Absorption	λ_{ex} [nm]	644
Extinction Coefficient	ϵ_{max} [M ⁻¹ cm ⁻¹]	240000
Emission	λ_{em} [nm]	660
Quantum Efficiency	η_{fl} [%]	22
Fluorescence Lifetime	τ_{fl} [ns]	0.8
Correction Factor 260	CF ₂₆₀	0.04
Correction Factor 280	CF ₂₈₀	0.03
Charge	Δq	-2
Molecular Weight	MW [g/mol]	722.8
Derivative/Conjugate	Carboxylic acid	

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