

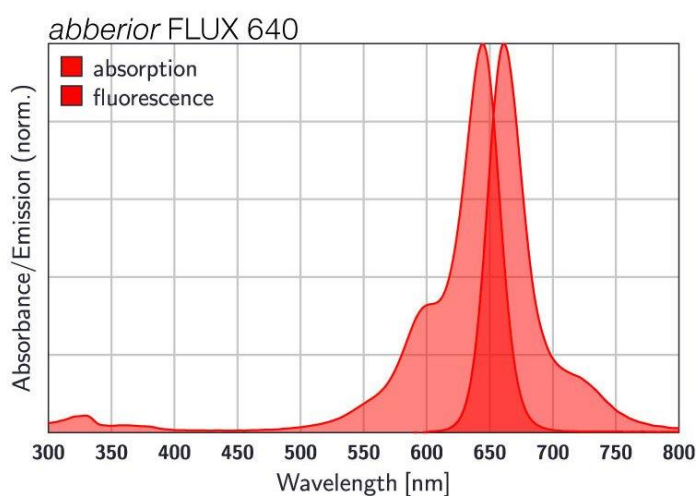
abberior FLUX 640, SNAP, 30 nmol

Item number

FX640-0145-30NMOL

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.



Our abberior FLUX 640 SNAP ligands can be readily used to specifically label your SNAP-tag® fusion proteins of interest within fixed cells. All our bright and photostable abberior FLUX SNAP probes are modified by a benzylguanine substrate as functional group.

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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]	975.1
Derivative/Conjugate	SNAP (Benzylguanine)	

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

Storage

abberior SNAP labels are shipped freeze-dried in amounts of 30 nmol per vial. Upon arrival, the substances 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.

- Note: Depending on solvent quality the shelf-life of the stock solutions might be significantly reduced compared to the substances in their solid form – even if stored at -20 °C.