

Cyanine 2 NHS ester [equivalent to Cy2® NHS ester]

Catalog ID: 150101

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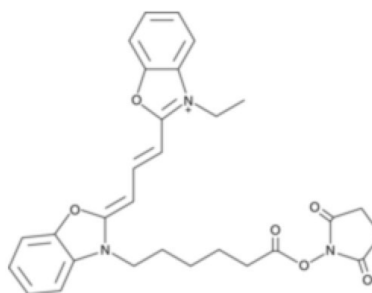
Description

Cyanine2 is a green fluorescent dye with optical properties similar to Rhodamine Green, FITC, and AF488. It is the only dye in the Cyanine series that uses a benzoxazole chromophore. As a result, despite having the same length of methine bridge as Cyanine3, its absorption and emission peaks are blue-shifted by approximately 70 nm, placing it in the yellow-green spectral range. This makes Cyanine2 the only green-fluorescent dye in the Cyanine series of cyanine dyes. Cyanine2 offers numerous advantages: it exhibits strong fluorescence in both non-polar and polar environments, is compatible with non-polar organic mounting media such as DPX and Permount™, has a stable fluorescent core and chemical structure, can be adapted to various conventional green fluorescence channels, and is suitable for labeling a wide range of nanomaterials and biological samples.

This product is Cyanine2 NHS ester, which can directly react with amino groups in various labeling targets to form stable amide bonds.

Chemical Properties

CAS number	NA
Formula	C ₂₉ H ₃₀ ClN ₃ O ₆
Molecular Weight	552.02
HPLC Purity	≥95%
λ _{abs} (nm)	490
ε _{max} (M ⁻¹ cm ⁻¹)	1.5×10 ⁵
λ _{fl} (nm)	510
CF ₂₆₀ = ε ₂₆₀ /ε _{max}	NA
CF ₂₈₀ = ε ₂₈₀ /ε _{max}	NA



Storage

Upon receipt, store at -20°C in the dark. Protect from light and moisture. When stored as indicated, Cyanine 2 NHS ester is stable for at least 1 year.

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

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