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## Cyanine5 NHS ester minimal dye

<http://www.lumiprobe.com/p/cy5-dige-nhs>

Cyanine5 minimal dye for protein labeling, an analog of Cy5® minimal dye.

This reagent is specially quantified for the use in 2D proteomics. Each package contains specified amount of NHS ester with quantity variation within 10%.

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### General properties

Appearance:	dark blue solid
Mass spec M+ increment:	580.73
Molecular weight:	667.54
Molecular formula:	$C_{36}H_{42}BF_4N_3O_4$
Solubility:	soluble in polar organic solvents
Quality control:	NMR $^1H$ , HPLC-MS, functional testing
Storage conditions:	Storage: 12 months after receipt at $-20^{\circ}C$ in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

### Spectral properties

Excitation/absorption maximum, nm:	646
Emission maximum, nm:	662
$CF_{260}$ :	0.03
$CF_{280}$ :	0.04

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Purchase of these products does not imply transfer of license to perform methods patented by Carnegie Mellon University covered by US patents 6,043,025, 6,127,134, 6,246,190, 7,566,544, and 7,598,047 "Difference gel electrophoresis using matched multiple dyes" and family members in Australia, Canada, Europe and Japan.