## Lumiprobe Corporation

201 International Circle, Suite 135
Hunt Valley, Maryland 21030
USA
Phone: +1 8889736353
Fax: +1 8889736354
Email: order@lumiprobe.com

## Cyanine5 amine

http://www.lumiprobe.com/p/cy5-amine
Cyanine5 amine is a reactive dye which contains amino group, an analog of $\mathrm{Cy} 5 ®$ amine. This reagent can be coupled with a variety of activated esters and other electrophilic reagents. For example, this amine can be coupled with EDC-activated carboxylic groups.

This bright and photostable dye is suitable for many different methods of fluorescence detection. Colorful fluorophore can also be easily detected in small quantities (nanomols) by naked human eye.


Structure of Cyanine5 amine


Cyanine5 amine absorbance and emission spectra

## General properties

Appearance:
Molecular weight:
CAS number:
Molecular formula:
IUPAC name:

Solubility:
Quality control:
Storage conditions:
dark blue powder
653.77

1807529-70-9
$\mathrm{C}_{38} \mathrm{H}_{54} \mathrm{Cl}_{2} \mathrm{~N}_{4} \mathrm{O}$
3H-Indolium, 2-[5-[1-[6-[(6-aminohexyl)amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl2 H -indol-2-ylidene]-1,3-pentadien-1-yl]-1,3,3-trimethyl-
moderate solubility in water, good in polar organic solvents (DMF, DMSO, alcohols)
NMR ${ }^{1} H, ~ H P L C-M S ~(95 \%) ~$
Storage: 24 months after receival at $-20^{\circ} \mathrm{C}$ in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light.

## Spectral properties

Excitation/absorption maximum, nm: 646
$\varepsilon, \mathrm{L} \cdot \mathrm{mol}^{-1} \cdot \mathrm{~cm}^{-1}$ :
Emission maximum, nm:
250000

Fluorescence quantum yield: 0.2
$\mathrm{CF}_{260}$ : 0.03
$\mathrm{CF}_{280}$ : 0.04
$C y ®$ is a trademark of GE Healthcare.

