

## Cyanine7 NHS ester

<http://hk.lumiprobe.com/p/cy7-nhs-ester>

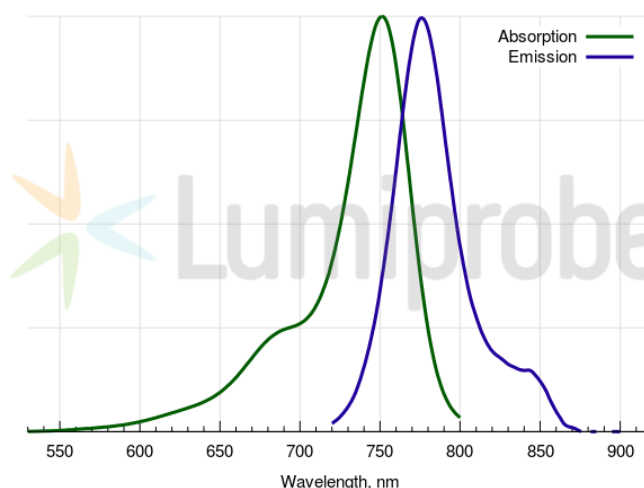
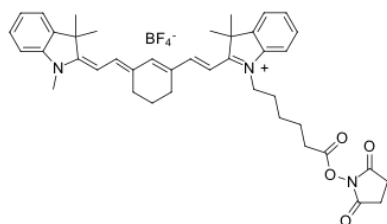
Amine reactive Cyanine7, near infrared fluorescent dye, an improved analog of Cy7®.

NIR fluorophores can be used to take advantage of near infrared window of biological tissues - increased transparency of tissues in this spectral region allows to carry out in vivo imaging.

This reagent can be utilized to produce Cyanine7-labeled biomolecules for subsequent use in various in vivo research, and drug design related experiments.

The structure of Cyanine7 features rigidized design of central polymethyne chain. This molecular reinforcement allows to increase quantum yield by 20% compared with parent structure, increasing fluorescence brightness.

This reagent **requires organic co-solvent** for the labeling (please see Recommended Protocols section below). [Water-soluble Cyanine7 NHS ester](#) is also available, and recommended for protein NIR labeling.



外观:

分子量: 733.64

CAS 编号: 2408482-09-5

分子式:  $C_{41}H_{48}N_3BF_4O_4$

溶解度:

质量控制:

储存条件:

激发/吸收极大值, 纳米: 750

$\epsilon$ , 摩尔吸光系数,  $cm^{-1}$ : 199000

发射极大值, 纳米: 773

荧光量子产率: 0.3

$CF_{260}$ : 0.022

$CF_{280}$ : 0.029