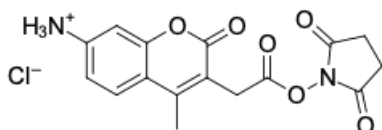


## AMCA NHS ester

<http://www.lumiprobe.com/p/amca-nhs-ester>

Activated NHS-ester of AMCA (aminomethyl coumarin acetate) dye. This NHS ester is an amine-reactive dye for labeling of amine groups in proteins, peptides, amino-modified oligos, and other target molecules.

AMCA is one of the brightest blue fluorescent dyes. This fluorophore has a relatively large Stoke's shift, high resistance to photobleaching, and pH-independent fluorescence from pH 4 to 10. AMCA is a widely used fluorophore for multiple-color labeling due to its minimal fluorescence overlap with green- and longer wavelength-emitting fluorescent dyes.



**Structure of AMCA NHS ester**

### General properties

Appearance:	gray powder
Mass spec M+ increment:	331.3
Molecular weight:	366.76
CAS number:	113721-87-2
Molecular formula:	C <sub>16</sub> H <sub>15</sub> ClN <sub>2</sub> O <sub>6</sub>
Solubility:	in DMSO, DMF
Quality control:	NMR <sup>1</sup> H and HPLC-MS (95+%)
Storage conditions:	12 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

### Spectral properties

Excitation/absorption maximum, nm:	348
$\epsilon$ , L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	17400
Emission maximum, nm:	435
Fluorescence quantum yield:	0.91
CF <sub>260</sub> :	0.16
CF <sub>280</sub> :	0.13