

## AMCA carboxylic acid

http://www.lumiprobe.com/p/amca-carboxylic-acid

AMCA (aminomethylcoumarin acetate) 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.

AMCA carboxylic acid is a non-reactive form of AMCA dye that can be used as a reference standard in experiments involving AMCA dye conjugates. Besides, the carboxylic group can react with hydrazines, hydroxylamines, and amines using carbodiimides such as EDAC.





## Structure of AMCA carboxylic acid

Absorption and emission spectra of AMCA

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Appearance:	off-white solid
Molecular weight:	233.22
Molecular formula:	$C_{12}H_{11}NO_4$
Solubility:	good in DMSO, DMF
Quality control:	NMR <sup>1</sup> H and HPLC-MS (95+%)
Storage conditions:	24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.
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## **Spectral properties**

General properties

Excitation/absorption maximum, nm:	348
ε, 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