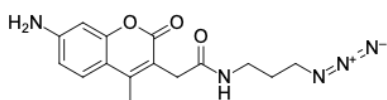


## AMCA azide

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

AMCA dye azide for [click chemistry](#) conjugation with terminal alkynes via a copper-catalyzed click reaction or strained cyclooctynes via a copper-free click reaction.

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.



**Structure of AMCA azide**

### General properties

|                     |  |
|---------------------|--|
| Appearance:         | yellow powder  |
| Molecular weight:   | 315.33   |
| Molecular formula:  | C <sub>15</sub> H <sub>17</sub> N <sub>5</sub> O <sub>3</sub>  |
| Solubility:         | in DMSO, DMF   |
| Quality control:    | NMR <sup>1</sup> H and HPLC-MS (95+%)  |
| Storage conditions: | 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.  |
| Legal statement:    | This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products. |

### Spectral 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  |