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AMCA azide

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

AMCA dye azide for <u>click chemistry</u> 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.

$$\begin{array}{c|c} H_2N & \bigcirc & \bigcirc & \bigcirc \\ & \downarrow & \\ &$$

Structure of AMCA azide

General properties

Appearance: yellow powder

 $\begin{tabular}{lll} Molecular weight: & 315.33 \\ Molecular formula: & $C_{15}H_{17}N_5O_3$ \\ Solubility: & in DMSO, DMF \\ \end{tabular}$

Quality control: NMR ¹H 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.

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 $^{-1}$ ·cm $^{-1}$: 17400 Emission maximum, nm: 435 Fluorescence quantum yield: 0.91 CF_{260} : 0.16 CF_{280} : 0.13