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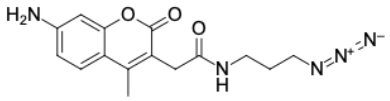
AMCA azide

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:	$C_{15}H_{17}N_5O_3$
Solubility:	in DMSO, DMF
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.

Spectral properties

Excitation/absorption maximum, nm:	348
ε, $L \cdot mol^{-1} \cdot cm^{-1}$:	17400
Emission maximum, nm:	435
Fluorescence quantum yield:	0.91
CF_{260}:	0.16
CF_{280}:	0.13