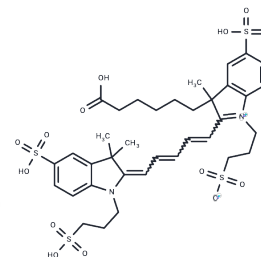


## AF647 carboxylic acid

### Chemical Properties

CAS No. :	407627-58-1
Formula:	C <sub>36</sub> H <sub>46</sub> N <sub>2</sub> O <sub>14</sub> S <sub>4</sub>
Molecular Weight:	859.02
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



### Biological Description

Description	AF 647 carboxylic acid is a fluorescent dye belonging to the AF dye family that emits far-red fluorescence, thereby minimizing spectral overlap and improving resolution in multicolor fluorescence experiments. AF647 carboxylic acid possesses a high quantum yield and generates strong fluorescence signals suitable for high-sensitivity detection and analytical applications. AF647 carboxylic acid demonstrates high solubility in water and most organic solvents, with excitation and emission maxima at 648/671 nm, respectively. AF647 carboxylic acid is extensively utilized in fluorescence imaging, flow cytometry, biomolecular labeling, and high-resolution cellular visualization studies.
Targets(IC50)	Others
In vitro	AF 647 carboxylic acid conjugate to anti-EGFR-AF 647 antibody can visualize the changes in co-localization of the epidermal growth factor (EGF) receptor and clathrin upon EGF addition that are consistent with clathrin-mediated endocytosis in HeLa cells [1].

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1641 mL	5.8206 mL	11.6412 mL
5 mM	0.2328 mL	1.1641 mL	2.3282 mL
10 mM	0.1164 mL	0.5821 mL	1.1641 mL
50 mM	0.0233 mL	0.1164 mL	0.2328 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Valley CC, et al. Sequential superresolution imaging of multiple targets using a single fluorophore. PLoS One. 2015 Apr 10;10(4):e0123941.

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