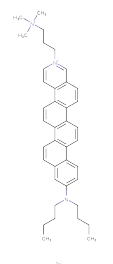


## ANNINE-6plus

### Chemical Properties

|                   |                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------|
| CAS No. :         | 1151942-85-6                                                                               |
| Formula:          | C39H47Br2N3                                                                                |
| Molecular Weight: | 717.62                                                                                     |
| Appearance:       | no data available                                                                          |
| Storage:          | keep away from direct sunlight<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year |



### Biological Description

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | ANNINE-6plus is a water soluble voltage sensitive dye (also called potentiometric dyes). This compound was developed at the Max Planck Institute for Biochemistry in Germany. It is used to optically measure the changes in transmembrane voltage of excitable cells, including neurons, skeletal and cardiac myocytes. ANNINE-6plus has a fractional fluorescent intensity change ( $\Delta F/F$ per 100 mV change) of about 30% with single-photon excitation (~488 nm) and >50% with two-photon excitation (~1060 nm). |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg      |
|-------|-----------|-----------|-----------|
| 1 mM  | 1.3935 mL | 6.9675 mL | 13.935 mL |
| 5 mM  | 0.2787 mL | 1.3935 mL | 2.787 mL  |
| 10 mM | 0.1393 mL | 0.6967 mL | 1.3935 mL |
| 50 mM | 0.0279 mL | 0.1393 mL | 0.2787 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.

### Reference

Ramamoorthy S, Wilson TM, Wu T, Nuttall AL. Non-uniform distribution of outer hair cell transmembrane potential induced by extracellular electric field. Biophys J. 2013 Dec 17;105(12):2666-75. doi: 10.1016/j.bpj.2013.11.021.

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