

Janelia Fluor® 646, SE

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 1811539-59-9 |
| Formula: | C33H31N3O6Si |
| Molecular Weight: | 593.711 |
| 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 | Janelia Fluor 646, SE (JF646, SE) is a red fluorescent dye used in cellular imaging. |
| Targets(IC50) | Others |
| In vitro | JF646, a red fluorescent dye, exhibits an excitation maximum at 646 nm and an emission maximum at 664 nm[1]. It is designed to act as a ligand for self-labeling tags, including HaloTag[1]. This dye, also known as Janelia Fluor 646, SE (JF646, SE), is a photostable, membrane-permeable molecule with a high extinction coefficient, and its structure is modified by JF646[2]. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.6843 mL | 8.4216 mL | 16.8432 mL |
| 5 mM | 0.3369 mL | 1.6843 mL | 3.3686 mL |
| 10 mM | 0.1684 mL | 0.8422 mL | 1.6843 mL |
| 50 mM | 0.0337 mL | 0.1684 mL | 0.3369 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

Grimm JB, et al. A general method to improve fluorophores for live-cell and single-molecule microscopy. Nat Methods. 2015;12(3):244-250. doi:10.1038/nmeth.3256

Basu S, et al. FRET-enhanced photostability allows improved single-molecule tracking of proteins and protein complexes in live mammalian cells. Nat Commun. 2018;9(1):2520. Published 2018 Jun 28.

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