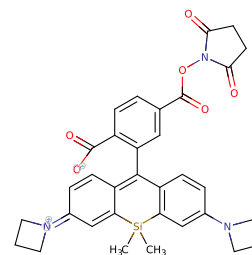


Janelia Fluor[®] 646, SE

Chemical Properties

CAS No. :	1811539-59-9
Formula:	C ₃₃ H ₃₁ N ₃ O ₆ Si
Molecular Weight:	593.711
Appearance:	no data available
Storage:	keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Janelia Fluor 646, SE (JF646, SE) is a red fluorescent dye can be used in cellular imaging.
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.

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

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