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## Product Data Sheet

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Product Name: Janelia Fluor 646, free acid

Cat. No.: GC50636

### Chemical Properties

Cas. No.

SMILES OC(C1=CC=C(C([O-])=O)C(C(C2=CC=C(N3CCC3)C=C2[Si]4(C)C)=C(C=C/5)C4=CC5=[N+]6CCC\6)=C1)=O.FC(F)(C(O)=O)F

Formula	C <sub>29</sub> H <sub>28</sub> N <sub>2</sub> O <sub>4</sub> Si.CF <sub>3</sub> CO <sub>2</sub> H	M.Wt	610.65
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Solubility	Soluble in DMSO	Storage	Store at -20°C
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General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure 

### Background

Red fluorogenic fluorescent dye; supplied as a free acid. Used in protocol (2017 Grimm et al - see references below) for the synthesis of Janelia Fluor® HaloTag® and SNAP-Tag® ligands, for use in live cell imaging experiments. Suitable for confocal fluorescent imaging, super resolution microscopy (SRM) techniques such as dSTORM (live and fixed cells) and STED imaging. Also suitable for flow cytometry. Cell permeable. Excitation maximum = 646 nm; emission maximum = 664 nm; Quantum yield = 0.54; Extinction coefficient = 152,000 M<sup>-1</sup>cm<sup>-1</sup>. To measure the absorbance spectrum of this dye we recommend the following solvent: ethanol or trifluoroethanol plus 0.1% TFA. We also offer Janelia Fluor® conjugated antibodies and custom conjugation services with our sister company Novus Biologicals. HaloTag is a trademark of Promega Corporation, and SNAP-tag is a trademark of New England BioLabs, Inc.

Grimm et al (2017) Synthesis of Janelia Fluor HaloTag and SNAP-Tag ligands and their use in cellular imaging experiments. *Methods Mol. Biol.* 1663 179 PMID:28924668 |Grimm et al (2015) A general method to improve fluorophores for live-cell and single-molecule

**Caution: Product has not been fully validated for medical applications. For research use only.**

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microscopy. Nat.Methods 12 244 PMID:25599551

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