

Janelia Fluor® 646, Maleimide

Chemical Properties

CAS No. :

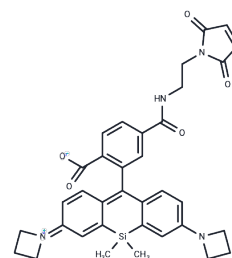
Formula: C₃₅H₃₄N₄O₅Si

Molecular Weight: 618.76

Keep away from direct sunlight

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Janelia Fluor® 646, Maleimide (JF646, Maleimide), is a red fluorescent dye containing a maleimide group, suitable for cellular imaging [1] [2].
Targets(IC50)	Others
In vitro	JF646 is a photostable, red fluorescent dye with peak absorption (λ_{max}) at 646 nm and peak emission (λ_{em}) at 664 nm [1]. It functions as a ligand for self-labeling tags, such as HaloTag, and is membrane-permeable with a high extinction coefficient [2]. This maleimide-modified compound is designed for specific labeling applications.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6161 mL	8.0807 mL	16.1614 mL
5 mM	0.3232 mL	1.6161 mL	3.2323 mL
10 mM	0.1616 mL	0.8081 mL	1.6161 mL
50 mM	0.0323 mL	0.1616 mL	0.3232 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481