Janelia Fluor® 646 TFA

Cat. No.: HY-131028

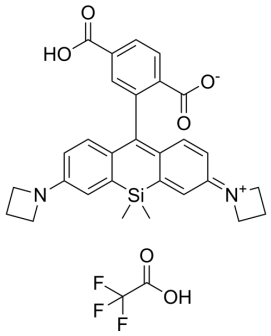
Molecular Formula: $C_{31}H_{29}F_3N_2O_6Si$

Molecular Weight: 610.65

Target: Fluorescent Dye

Pathway: Others

Storage: -20°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (163.76 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.6376 mL	8.1880 mL	16.3760 mL
	5 mM	0.3275 mL	1.6376 mL	3.2752 mL
	10 mM	0.1638 mL	0.8188 mL	1.6376 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Janelia Fluor® 646 TFA (JF646 TFA), a red fluorogenic fluorescent dye, can be used in the synthesis of Janelia Fluor 646 HaloTag and SNAP-Tag ligands. JF646 TFA is used in live cell imaging experiments[1][2]. Janelia Fluor® products are licensed under U.S. Pat. Nos. 9,933,417, 10,018,624 and 10,161,932 and other patents from Howard Hughes Medical Institute.

In Vitro

JF646 TFA: λmax (nm)=646, λem (nm) =664[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Grimm JB, Muthusamy AK, Liang Y, et al. A general method to fine-tune fluorophores for live-cell and in vivo imaging. Nat Methods. 2017;14(10):987-994. doi:10.1038/nmeth.4403.

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

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