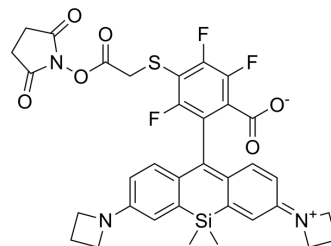


Janelia Fluor® 669, SE

Cat. No.:	HY-131030
CAS No.:	2127150-20-1
Molecular Formula:	C ₃₄ H ₃₀ F ₃ N ₃ O ₆ SSi
Molecular Weight:	693.76
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description	Janelia Fluor 669, SE (JF669, SE), a red fluorescent dye, can be directly reacted with the available thiol-containing HaloTag ligand under mild conditions (DIEA, DMF) to afford a JF669HaloTag ligand in a single step (Ex = 669 nm; Em = 682 nm) ^[1] . 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	JF669 undergoes rapid conversion to thioether product (<5 min to completion) in organic solvents, where the dye predominantly adopts the closed form ^[1] . JF669 displays comparatively excellent photostability, retaining 97% fluorescence after the same number of cycles ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Jonathan B Grimm, et al. General Synthetic Method for Si-Fluoresceins and Si-Rhodamines. ACS Cent Sci. 2017 Sep 27;3(9):975-985.

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

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