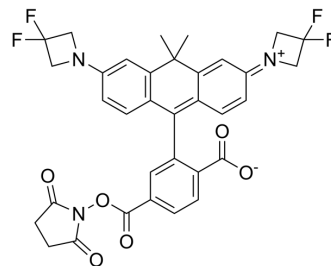


Janelia Fluor® 585, SE

Cat. No.:	HY-131025
CAS No.:	1811539-88-4
Molecular Formula:	C ₃₄ H ₂₇ F ₄ N ₃ O ₆
Molecular Weight:	649.59
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Janelia Fluor 585, SE (JF585, SE) is an orange fluorescent dye containing an NHS ester that can be conjugated with primary amine groups. Janelia Fluor 585, SE can be used immediately for structured illumination (SIM) and stimulated emission depletion (STED) imaging and could be converted to photoactivatable derivative for single-molecule localization microscopy (SMLM) experiments ^[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	Maximum absorption wavelength (λ_{abs})=585 nm, maximum emission wavelength (λ_{em})=609 nm ^[1] . The JF585-SNAP-tag ligand (24) also functioned as a cellular label. The new HaloTag ligands derived from JF585 and JF635 show a high degree of chromogenicity and fluorogenicity, a critical parameter in advanced imaging experiments ^[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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