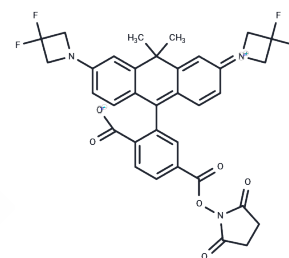


## Janelia Fluor® 585, SE

## Chemical Properties

CAS No. :	1811539-88-4
Formula:	C34H27F4N3O6
Molecular Weight:	649.599
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Janelia Fluor 585, SE (JF585, SE) is an orange fluorescent dye with an NHS ester that can conjugate with primary amine groups, making it immediately useful for structured illumination (SIM) and stimulated emission depletion (STED) imaging, and convertible to a photoactivatable derivative for single-molecule localization microscopy (SMLM) experiments.
Targets(IC50)	Others
In vitro	The chemical compound exhibits a maximum absorption wavelength ( $\lambda_{abs}$ ) of 585 nm and a maximum emission wavelength ( $\lambda_{em}$ ) of 609 nm[1]. The JF585-SNAP-tag ligand (24) serves effectively as a cellular label. Furthermore, the novel HaloTag ligands, developed from JF585 and JF635, display significant chromogenicity and fluorogenicity, essential for advanced imaging experiments[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5394 mL	7.697 mL	15.3941 mL
5 mM	0.3079 mL	1.5394 mL	3.0788 mL
10 mM	0.1539 mL	0.7697 mL	1.5394 mL
50 mM	0.0308 mL	0.1539 mL	0.3079 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.

Reference

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

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