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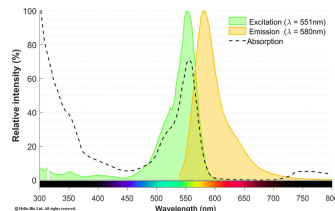
DATASHEET

Janelia Fluor® 549, Azide

Product overview

Name	Janelia Fluor® 549, Azide
Cat No	HB7988
Biological description	Cell-permeable, yellow fluorescent dye supplied as an azide for click chemistry. Suitable for confocal microscopy and super resolution microscopy (SRM) including techniques such as dSTORM (both live and fixed cells) and STED. Also suitable for flow cytometry. Janelia Fluor® 549 is 2 x brighter than TMR and Cy3 <i>in vitro</i> and live-cell experiments.
Alternative names	Spectrally similar dyes: Alexa Fluor® 546, Alexa Fluor® 555, BDY TMR-X, Atto 550, CF 555, TAMRA, Cyanine 3
Biological action	JF549, Azide
Description	Dyes & stains Yellow dye supplied as an azide for click chemistry. Suitable for dSTORM, STED, confocal microscopy, live cell imaging and flow cytometry.

Images



Biological Data

Application notes	#Protocol 1: Measurement of excitation and emission spectra of Janelia Fluor® 549, azide <ul style="list-style-type: none">Janelia Fluor® 549, azide was prepared at 1µm in PBS.Spectra were generated on a Tecan Infinite M200 PRO using the following parameters:<ul style="list-style-type: none">Excitation: Recording at 638nm while exciting between 280nm and 610nmEmission: Exciting at 509nm while recording between 535nm and 800nmAbsorbance: Measured between 300 and 800nm
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Solubility & Handling

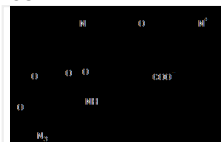
Storage instructions	-20 °C
Solubility overview	Soluble in DMSO
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	3,6-Di-1-azetidiny-9-[5-[[2-[2-[2-azidoethoxy]ethoxy]ethoxy]ethyl]carbamoyl]-2-carboxyphenyl]xanthylum, inner salt
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Molecular Weight
Chemical structure

654.71



Molecular Formula
PubChem identifier
SMILES

$C_{35}H_{38}N_6O_7$
137919860

O=C(NCCOCCOCCOCCN=[N+]=[N-])C1=CC=C(C([O-])=O)C(C(C2=CC=C(N3CCC3)C=C2O4)=C(C=C/5)C4=CC5=[N+]6CCC\6)=C1

Source
InChiKey
Licensing details
Excitation
Emission

Synthetic

XDSXVSGQYCACTI-UHFFFAOYSA-N

Sold under license from the Howard Hughes Medical Institute, Janelia Research Campus

549 nm

571 nm

References

A general method to improve fluorophores for live-cell and single-molecule microscopy.

Grimm JB et al (2015) Nature methods 12

PubMedID

[25599551](#)
