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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 with an azide reactive group for copper-free 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 in vitro and live-cell experiments.

Spectrally similar dyes: Alexa Fluor® 546, Alexa Fluor® 555, BDY TMR-X, Atto 550, CF 555,

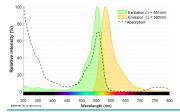
TAMRA, Cyanine 3

Alternative names Biological action Description JF549, Azide 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

- Janelia Fluor® 549, azide was prepared at 1µm in PBS.
- Spectra were generated on a Tecan Infinite M200 PRO using the following parameters:
 - $\circ\,$ Excitation: Recording at 638nm while exciting between 280nm and 610nm
 - Emission: Exciting at 509nm while recording between 535nm and 800nm
 - $\circ\,$ Absorbance: Measured between 300 and 800nm

Solubility & Handling

Storage instructions

-20°C

Solubility overview Important

Soluble in DMSO

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use

Chemical Data

 $\textbf{Chemical name} \hspace{3.6 \text{-Di-1-azetidinyl-9-[5-[[2-[2-[2-[2-azidoethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy] ethoxy] e$

ylium, inner salt 654.71

Molecular Weight

Chemical structure

М О М[°] () () () (СК) () МП

 $C=C/5)C4=CC5=[N+]6CCC\setminus 6)=C1$

Source Synthetic

InChiKey XDSXVSGQYCACTI-UHFFFAOYSA-N

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

Excitation 549 nm **Emission** 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