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# **DATASHEET**

Janelia Fluor® 525, free acid

#### **Product overview**

Name Janelia Fluor® 525, free acid

Cat No HB7173

**Biological description** Cell-permeable, yellow fluorescent dye with a free acid reactive group. Used for the synthesis of

Janelia Fluor® HaloTag® and SNAP-tag® ligands. Suitable for confocal microscopy and super resolution microscopy (SRM) including techniques such as dSTORM (both live and fixed cells). Can

also be multiplexed with Janelia Fluor  $\ensuremath{\text{@}}$  635 SE for two color imaging.

Spectrally similar dyes: Alexa Fluor® 532, Alexa Fluor® 514, Atto 532, CF514, CF532

Dyes & stains

>95%

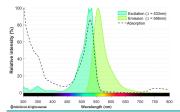
Yellow dye supplied as a free acid. Suitable for super resolution microscopy (e.g. dSTORM), confocal

microscopy and live cell imaging.

### **Images**

Purity Description

**Biological action** 



# **Biological Data**

**Application notes** 

#Protocol 1: Measurement of excitation and emission spectra of Janelia Fluor ® 525, free acid

- Spectra were generated on a Tecan Infinite M200 PRO using the following parameters:
  - $\circ\,$  Excitation: Recording at 618nm while exciting between 280nm and 590nm
  - $\circ\,$  Emission: Exciting at 484nm while recording between 510nm and 800nm
  - Absorbance: Measured between 300 and 800nm

# **Solubility & Handling**

Storage instructions Solubility overview Important -20°C

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**

Chemical name

3,6-Di-1-(3,3-difluoroazetidinyl)-9-[2,5-dicarboxy-phenyl]xanthylium, inner salt

**Molecular Weight** Chemical structure 526.44

Molecular Formula

 $C_{27}H_{19}F_4N_2O_5$ 

**SMILES** 

Source

NEMQHPGUMYWUDT-UHFFFAOYSA-N InChiKey

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#### References

A general method to fine-tune fluorophores for live-cell and in vivo imaging.

Grimm JB et al (2017) Nature methods 14 **PubMedID**