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# DATASHEET

Janelia Fluor® 525, free acid

## Product overview

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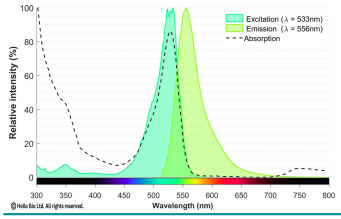
| **Name** | Janelia Fluor® 525, free acid |
| **Cat No** | HB7173 |
| **Biological description** | Cell-permeable, yellow fluorescent dye with a free acid reactive group. Used for the synthesis of Janelia Fluor® HaloTag® and SNAP-tag® ligands. Suitable for confocal microscopy and super resolution microscopy (SRM) including techniques such as dSTORM (both live and fixed cells). Can also be multiplexed with Janelia Fluor ® 635 SE for two color imaging.<br><br>**Spectrally similar dyes:** Alexa Fluor® 532, Alexa Fluor® 514, Atto 532, CF514, CF532 |
| **Biological action** | Dyes & stains |
| **Purity** | >95% |
| **Description** | Yellow dye supplied as a free acid. Suitable for super resolution microscopy (e.g. dSTORM), confocal microscopy and live cell imaging. |

## Images




## Biological Data

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| **Application notes** | **#Protocol 1: Measurement of excitation and emission spectra of Janelia Fluor ® 525, free acid**<br><br>• Janelia Fluor ® 525, free acid was prepared at 1µm in PBS.<br>• Spectra were generated on a Tecan Infinite M200 PRO using the following parameters:<br>  ◦ Excitation: Recording at 618nm while exciting between 280nm and 590nm<br>  ◦ Emission: Exciting at 484nm while recording between 510nm and 800nm<br>  ◦ Absorbance: Measured between 300 and 800nm |

## Solubility & Handling

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| **Storage instructions** | -20°C |
| **Solubility overview** | Soluble in DMSO |
| **Storage of solutions** | Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use. |
| **Shipping Conditions** | Stable for ambient temperature shipping. Follow storage instructions on receipt. |

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| **Storage instructions** | -20°C |
| **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

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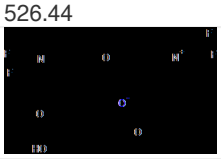
| **Chemical name** | 3,6-Di-1-(3,3-difluoroazetidinyl)-9-[2,5-dicarboxy-phenyl]xanthylium, inner salt |
| **Molecular Weight** | 526.44 |
| **Chemical structure** |  |
| **Molecular Formula** | $C_{27}H_{19}F_4N_2O_5$ |
| **SMILES** | O=C(O)c6cc(C=1c4ccc(cc4OC2=CC(\C=CC=12)=[N+]3/CC(F)(F)C3)N5CC(F)(F)C5)c(cc6)C([O-])=O |
| **Source** | Synthetic |
| **InChiKey** | NEMQHPGUMYWUDT-UHFFFAOYSA-N |
| **Licensing details** | Sold under license from the Howard Hughes Medical Institute, Janelia Research Campus |

## References


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

Grimm JB et al (2017) Nature methods 14

**PubMedID** 28869757