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## DATASHEET

### Janelia Fluor® 549, Tetrazine

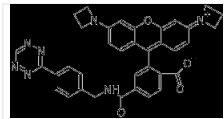
#### Product overview

<b>Name</b>	Janelia Fluor® 549, Tetrazine
<b>Cat No</b>	HB7228
<b>Biological description</b>	Cell-permeable, yellow fluorescent dye supplied with a tetrazine reactive handle for copper-free click chemistry. Can be coupled directly to a protein of interest by labeling unnatural amino acids with biorthogonal click chemistry in primary neurons. Suitable for confocal microscopy and super resolution microscopy (SRM) including techniques such as dSTORM (both live and fixed cells) and STED.
<b>Alternative names</b>	<b>Spectrally similar dyes:</b> Alexa Fluor® 546, Alexa Fluor® 555, BDY TMR-X, Atto 550, CF 555, TAMRA, Cyanine 3
<b>Biological action</b>	JF549-tetrazine
<b>Purity</b>	Dyes & stains
<b>Description</b>	>95% Yellow dye supplied with a tetrazine reactive handle for copper-free click chemistry. Suitable for dSTORM, STED, confocal microscopy and live cell imaging.

#### Solubility & Handling

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

#### Chemical Data

<b>Chemical name</b>	3,6-Di-1-azetidiny-9-[[4-[(1,2,4,5-tetrazin-3-yl)benzyl]carbamoyl]-2-carboxyphenyl]xanthylum, inner salt
<b>Molecular Weight</b>	623.66
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>36</sub> H <sub>29</sub> N <sub>7</sub> O <sub>4</sub>
<b>SMILES</b>	[O-]C(=O)c1ccc(cc1C=1c2ccc(cc2OC2=CC(\C=CC=12)=[N+]/CCC1)N1CCC1)C(=O)NCc1ccc(cc1)c1nncn1
<b>InChiKey</b>	LNBOAGLYGHAER-UHFFFAOYSA-N
<b>Appearance</b>	Purple solid

#### References

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

Grimm JB et al (2015) Nature methods 12

**PubMedID** [25599551](https://pubmed.ncbi.nlm.nih.gov/25599551/)

