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DATASHEET

Janelia Fluor® 549, Tetrazine

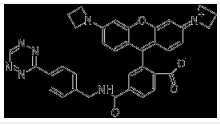
Product overview

Name	Janelia Fluor® 549, Tetrazine
Cat No	HB7228
Biological description	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. **Spectrally similar dyes:** Alexa Fluor® 546, Alexa Fluor® 555, BDY TMR-X, Atto 550, CF 555, TAMRA, Cyanine 3
Alternative names	JF549-tetrazine
Biological action	Dyes & stains
Purity	>95%
Description	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

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-azetidinyl-9-[[4-[(1,2,4,5-tetrazin-3-yl)benzyl]carbamoyl]-2-carboxyphenyl]xanthylium, inner salt
Molecular Weight	623.66
Chemical structure	
Molecular Formula	$C_{36}H_{29}N_7O_4$
SMILES	[O-]C(=O)c1ccc(cc1C=1c2ccc(cc2OC2=CC(\C=CC=12)=[N+]1/CCC1)N1CCC1)C(=O)NCc1ccc(cc1)c1nncnn1
InChiKey	LNBOAGLYGHAAER-UHFFFAOYSA-N
Appearance	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