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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 JF549-tetrazine Dves & stains

Biological action Purity

Alternative names

>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

-20°C Storage instructions

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.

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 623.66

Molecular Weight **Chemical structure**

Molecular Formula

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

