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# **DATASHEET**

BAPTA-AM Janelia Fluor® 549

#### **Product overview**

Name BAPTA-AM Janelia Fluor® 549

Cat No HB24669

**Biological description** Membrane permeable, red-shifted (Excitation 546nm, Emission 569nm), intracellular calcium (Ca<sup>2+</sup>)

indicator ( $K_d = 310$ nM). Suitable for measurement of fast calcium dynamics in neurons and

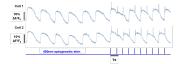
cardiomyocytes with excellent photostability and brightness compared to genetically encoded sensors. Reduces issues with tissue autofluorescence and background fluorescence due to the red-shifted fluorophore. Compatible with fluorescence microscopy using TRITC or Cy3 filters. Ideally suited for multicolor imaging and use with optogenetic tools for triggering calcium transients that can then be measured with BAPTA-AM Janelia Fluor® 549 at a different wavelength. For optimal cell loading, F-127 is available either as a 10% solution in water (HB16503) and 20% solution in DMSO (HB9631).

**Applications** fluorescence imaging

Purity >90%

**Description** Red-shifted cell permeable calcium indicator

### **Images**



## **Biological Data**

Application notes Please follow our BAPTA-AM Janelia Fluor® 549 protocol

## Solubility & Handling

Storage instructions

Solubility overview

Handling

**Important** 

-20°C

Soluble in DMSO to at least 2mg/ml

This compound is light sensitive; exposure to light may affect compound performance. We therefore

recommend storing the solid material and any solutions in the dark and protecting from light.

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use

#### **Chemical Data**

Molecular Weight Chemical structure 1215

Molecular Formula Appearance Licensing details C<sub>69</sub>H<sub>67</sub>N<sub>5</sub>O<sub>25</sub>

Red to dark pink film or pellet

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## References

## Isomeric Tuning Yields Bright and Targetable Red Ca2+ Indicators

Deo C, Sheu SH, Seo J, Clapham DE, Lavis LD (2019 ) J Am Chem Soc **PubMedID** 31430138