

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@m2stage.hellobio.com



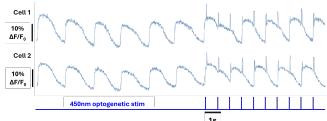
DATASHEET

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^{2+}) indicator ($K_d = 310\text{nM}$). 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 |
|--------------------------|--|

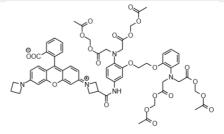
Solubility & Handling

| | |
|-----------------------------|---|
| Storage instructions | -20°C |
| Solubility overview | Soluble in DMSO to at least 2mg/ml |
| Handling | 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. |
| 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

Molecular Weight
Chemical structure

1215



Molecular Formula

C₆₉H₆₇N₅O₂₅

Appearance

Licensing details

Red to dark pink film or pellet

Sold under license from the Howard Hughes Medical Institute, Janelia Research Campus

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](#)
