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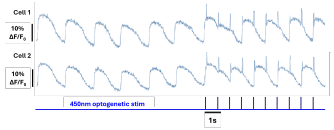
DATASHEET

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^{2+}) indicator (K_d = 310nM). 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



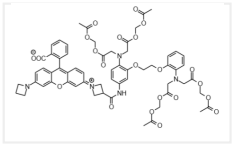
Biological Data

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
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.
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.
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

Molecular Weight	1215
Chemical structure	
Molecular Formula	$C_{69}H_{67}N_5O_{25}$
Appearance	Red to dark pink film or pellet
Licensing details	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