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DATASHEET

ICR-1 AM

Product overview

Name ICR-1 AM Cat No HB13384

Alternative names ION Calcium Red-1, ICR, IRC-1

Red fluorescent calcium (Ca^{2+}) indicator for intracellular Ca^{2+} measurements (Kd = 480nM). Has long-**Biological description**

wavelength emission and a large Stokes shift (Excitation 580nm, Emission 660nm) which reduces contributions of autofluorescence. ICR-1 AM is optimal for cellular and tissue imaging applications and can be multiplexed with GFP-labeled cells or other green fluorophores. Does not accumulate in the mitochondria. Compatible with both fluorescence lifetime imaging and multiphoton imaging. For optimal cell loading, F-127 is available either as a 10% solution in water (HB16503) and 20% solution in

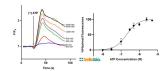
DMSO (HB9631).

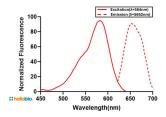
Applications fluorescence imaging, live cell imaging

Purity >95%

Description Red fluorescent membrane permeable calcium indicator

Images





Biological Data

Please follow our ICR-1 AM Protocol **Application notes**

Solubility & Handling

-20° Storage instructions Solubility overview **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.

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

Handling

Molecular Weight **Appearance**

1190.5 Solid

Excitation 580 nm **Emission** 660 nm

References

New red-fluorescent calcium indicators for optogenetics, photoactivation and multi-color imaging.

Oheim M et al (2014) Biochimica et biophysica acta 1843

PubMedID 24681159