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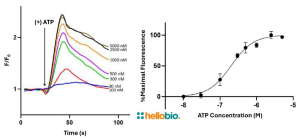
DATASHEET

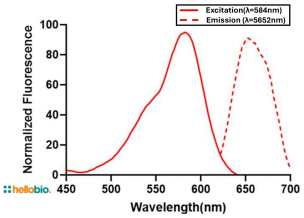
ICR-1 AM

Product overview

Name	ICR-1 AM
Cat No	HB13384
Alternative names	ION Calcium Red-1, ICR, IRC-1
Biological description	Red fluorescent calcium (Ca^{2+}) indicator for intracellular Ca^{2+} measurements (Kd = 480nM). Has long-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

Application notes	Please follow our ICR-1 AM Protocol

Solubility & Handling

Storage instructions	-20°
Solubility overview	DMSO
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	1190.5
Appearance	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