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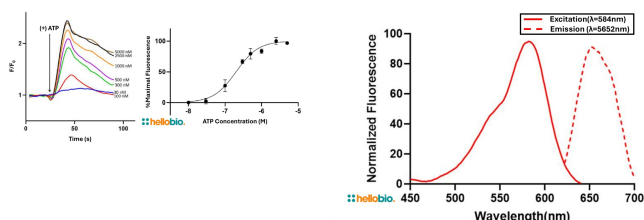
## DATASHEET

ICR-1 AM

### Product overview

<b>Name</b>	ICR-1 AM
<b>Cat No</b>	HB13384
<b>Alternative names</b>	ION Calcium Red-1, ICR, IRC-1
<b>Biological description</b>	Red fluorescent calcium ( $\text{Ca}^{2+}$ ) indicator for intracellular $\text{Ca}^{2+}$ measurements ( $K_d = 480\text{nM}$ ). 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.
<b>Applications</b>	fluorescence imaging, live cell imaging
<b>Purity</b>	>95%
<b>Description</b>	Red fluorescent membrane permeable calcium indicator

### Images



### Biological Data

<b>Application notes</b>	Please follow our <a href="#">ICR-1 AM Protocol</a>
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### Solubility & Handling

<b>Storage instructions</b>	-20°
<b>Solubility overview</b>	DMSO
<b>Handling</b>	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.
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

### Chemical Data

<b>Molecular Weight</b>	1190.5
<b>Appearance</b>	Solid
<b>Excitation</b>	580 nm
<b>Emission</b>	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**

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