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## DATASHEET

FURA-2

### Product overview

<b>Name</b>	FURA-2
<b>Cat No</b>	HB0779
<b>Biological action</b>	Dyes & stains
<b>Purity</b>	>90%
<b>Description</b>	Widely used UV light-excitable, ratiometric calcium indicator

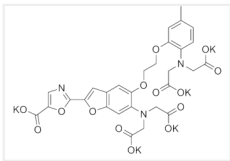
### Biological Data

<b>Biological description</b>	Widely used UV light-excitable, ratiometric calcium indicator. Use for ratio-imaging microscopy. Measures intracellular calcium. Membrane impermeable which can be loaded into cells by microinjection, electroporation or scrape loading. Excitation 363nm, Emission 512nm.
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### Solubility & Handling

<b>Storage instructions</b>	-20°C
<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>	831.99
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>29</sub> H <sub>22</sub> N <sub>3</sub> O <sub>14</sub> K <sub>5</sub>
<b>CAS Number</b>	113694-64-7
<b>PubChem identifier</b>	341120321
<b>SMILES</b>	[O-]C(C1=CN=C(O1)C2=CC3=C(O2)C=C(N(CC([O-])=O)CC([O-])=O)C(OCCOC4=C(N(CC([O-])=O)CC([O-])=O)C=CC(C)=C4)=C3)=O.[K+].[K+].[K+].[K+].[K+]
<b>InChiKey</b>	HQKWBBCTCLUGSX-UHFFFAOYSA-I

### References

#### Measurement of [Ca<sup>2+</sup>]<sub>i</sub> in whole cell suspensions using fura-2.

Hirst RA *et al* (2006) *Methods Mol Biol* 312

**PubMedID** [16422189](#)

