Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com

DATASHEET

FURA-2

Product overview

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

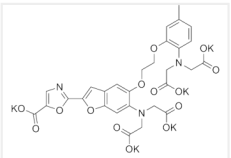
Biological Data

Biological description	Widely used UV light-excitable, ratiometric calcium indicator. Use for ratio-imaging microscopy. Measures intracelular calcium. Membrane impermeable which can be loaded into cells by microinjection, electroporation or scrape loading. Excitation 363nm, Emission 512nm.

Solubility & Handling

Storage instructions	-20°C
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	831.99
Chemical structure	
Molecular Formula	$C_{29}H_{22}N_3O_{14}K_5$
CAS Number	113694-64-7
PubChem identifier	341120321
SMILES	[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+]
InChiKey	HQKWBBCTCLUGSX-UHFFFAOYSA-I

References

Measurement of [Ca2+]i in whole cell suspensions using fura-2.

Hirst RA *et al* (2006) Methods Mol Biol 312
PubMedID 16422189