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DATASHEET

Product overview

Name FURA-2 Cat No HB0779 **Biological action** Dyes & stains >90% **Purity**

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

-20°C Storage instructions

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. 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.

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

Molecular Weight Chemical structure

Molecular Formula CAS Number PubChem identifier SMILES

 $C_{29}H_{22}N_3O_{14}K_5$ 113694-64-7 341120321

[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(OCCOC4=C(N(CC([O-])=O)CC([O-])=O)C(OCCOC4=C(N(CC([O-])=O)CC([O-])=O)C(OCCOC4=C(N(CC([O-])=O)CC([O-])=O)C(OCCOC4=C(N(CC([O-])=O)CC([O-])=O)C(OCCOC4=C(N(CC([O-])=O)CC([O-])=O)C(OCCOC4=C(N(CC([O-])=O)CC([O-])=O)C(OCCOC4=C(N(CC([O-])=O)CC([O-])=O)C(OCCOC4=C(N(CC([O-])=O)CC([O-])=O)C(OCCOC4=C(N(CC([O-])=O)CC([O-])=O)C(OCCOC4=C(N(CC([O-])=O)CC([O-])=O)C(OCCOC4=C(N(CC([O-])=O)CC([O-])=O)C(OCCOC4=C(N(CC([O-])=O)C([O-])=O)C(OCCOC4=C(N(CC([O-])=O)C([O-])=O)C(([O-])=O)C([O-])=O)C((CC([O-])=O)C=CC(C)=C4)=C3)=O.[K+].[K+].[K+].[K+].[K+]

HQKWBBCTCLUGSX-UHFFFAOYSA-I InChiKey

References

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

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

