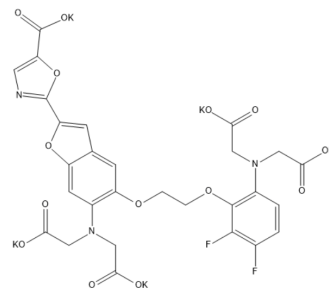


Fura-FF pentapotassium

Cat. No.:	HY-135239
CAS No.:	192140-58-2
Molecular Formula:	C ₂₈ H ₁₈ F ₂ K ₅ N ₃ O ₁₄
Molecular Weight:	853.94
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Fura-FF pentapotassium is a low-affinity fluorescent dye for calcium (Ex/Em: 365/514 nm in the absence of calcium; 339/507 nm in the presence of a high calcium concentration) ^[1] .
In Vitro	<p>Guidelines^[2] (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).</p> <p>Labeling of Human Sperm Cells:</p> <ol style="list-style-type: none"> 1. Incubate the cells according to your normal protocol. 2. Load cells with 5 μM Fura-FF in 1 mL Hepes-buffered human sperm (H-HSM) medium at 36 °C for 40 min. 3. Wash the sample by centrifugation and scatter cells in disposable centrifuge tubes at 1 × 10⁷ cells in 3 mL of H-HSM and maintained at 36 °C. 4. Immediately measure fluorescence recordings. <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Ruggiu AA, et al. Fura-2FF-based calcium indicator for protein labeling. *Org Biomol Chem*. 2010 Aug 7;8(15):3398-401.

[2]. Neri-Vidaurri Pdel C, et al. A remarkable increase in the pHi sensitivity of voltage-dependent calcium channels occurs in human sperm incubated in capacitating conditions. *Biochem Biophys Res Commun*. 2006 Apr 28;343(1):105-9.

Caution: Product has not been fully validated for medical applications. For research use only.

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