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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

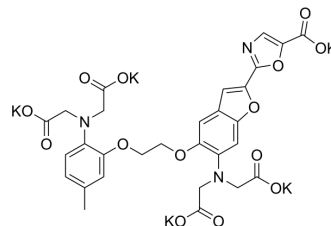
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Fura-2 pentapotassium

Cat. No.:	HY-D0110A
CAS No.:	113694-64-7
Molecular Formula:	C ₂₉ H ₂₂ K ₅ N ₃ O ₁₄
Molecular Weight:	831.99
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



BIOLOGICAL ACTIVITY

Description	Fura-2 pentapotassium is a scaled fluorescent dye that can be used for intracellular calcium imaging with the K _d value of 140 nM. Fura-2 pentapotassium has an emission wavelength of 510 nm and excitation wavelengths of 340 nm or 380 nm and the ratio of 340/380 fluorescence intensity is proportional to the intracellular Ca ²⁺ level ^{[1][2]} .
In Vitro	Fura-2 pentapotassium (10 μM, 2 min) can be used to detect changes in the concentration of calcium ions in neutrophils of heparinized peripheral blood ^[1] . Fura-2 pentapotassium (10 μM, 5 min) can be used as a calcium probe to assess the distribution of calcium ions within heart mitochondria without affecting the activity of it in rat ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Omar Rafael Alemán, et al. The Antibody Receptor Fc Gamma Receptor IIIb Induces Calcium Entry via Transient Receptor Potential Melastatin 2 in Human Neutrophils. *Front Immunol.* 2021 May 13;12:657393. doi: 10.3389/fimmu.2021.657393.
- [2]. James G. McCormack, et al. Studies on mitochondrial Ca²⁺-transport and matrix Ca²⁺ using fura-2-loaded rat heart mitochondria. *Biochim Biophys Acta.* 1989 Mar 23;973(3):420-7.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA