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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Fura-2 pentapotassium

Cat. No.: HY-D0110A

CAS No.: 113694-64-7

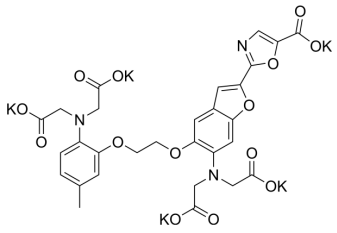
Molecular Formula: $C_{29}H_{22}K_5N_3O_{14}$

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)



SOLVENT & SOLUBILITY

In Vitro

1M NaOH : 10 mg/mL (12.02 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.2019 mL	6.0097 mL	12.0194 mL
	5 mM	0.2404 mL	1.2019 mL	2.4039 mL
	10 mM	0.1202 mL	0.6010 mL	1.2019 mL

Please refer to the solubility information to select the appropriate solvent.

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.

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