

### Fura-2 AM, Ca<sup>2+</sup> selective fluorescent indicator ab120873

**18 References**    画像数 3

#### 製品の概要

製品名	Fura-2 AM, Ca <sup>2+</sup> selective fluorescent indicator
製品の詳細	High affinity Ca <sup>2+</sup> selective fluorescent indicator
生理活性の詳細	High affinity Ca <sup>2+</sup> selective fluorescent indicator ( $K_d = 145$ nM). Rapidly metabolized by cytoplasmic esterases leading to the active dye Fura 2. Cell-permeable. Excitation spectrum dependent on $[Ca^{2+}]_i$ . Ex <sub>340/380</sub> /Em <sub>505</sub> .

精製度 > 95%

特記事項  
 1 unit = 50 µg  
 1 mg - 1 x 1 mg vial  
 20 units - 20 x 50 µg vials  
 10 units - 10 x 50 µg vials  
 50 µg - 1 x 50 µg vial

Related protocols:

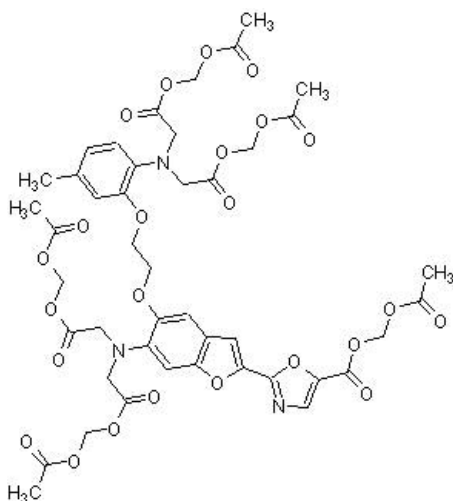
**Fura-2 AM imaging protocol**

**Calcium imaging using Fura-2 AM in motor neurons**

**Measurement of free cytosolic calcium concentration in single CHO-K1 cells**

CAS 番号 108964-32-5

構造式



## 製品の特性

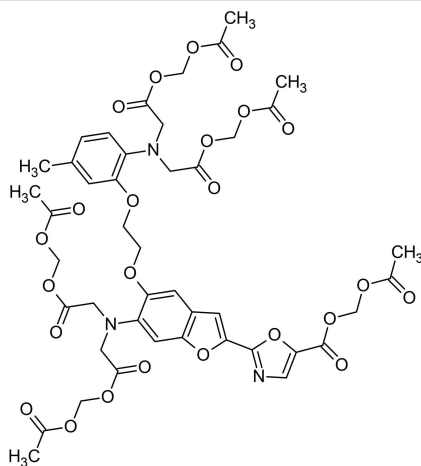
体系名	2-[6-[Bis[2-[(acetyloxy)methoxy]-2-oxoethyl]amino]-5-[2-[2-[bis[2-[(acetyloxy)methoxy]-2-oxoethyl]amino]-5-methylphenoxy]ethoxy]-2-benzofuranyl]-5-oxazolecarboxylic acid (acetyloxy)methyl ester
分子量	1001.86
分子式	C <sub>44</sub> H <sub>47</sub> N <sub>3</sub> O <sub>24</sub>
PubChem 登録番号	3364574
保存方法	Shipped at Room Temperature. Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
溶解性	Soluble in DMSO to 10 mM
使用に関する注意	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Need more advice on solubility, usage and handling? Please visit our <a href="#">frequently asked questions (FAQ) page</a> for more details.</p>
SMILES 線形表記	<chem>CC1=CC(=C(C=C1)N(CC(=O)OCOC(=O)C)CC(=O)OCOC(=O)C)OCCOC2=C(C=C3C(=C2)C=C(O3)C4=NC=C(O4)C(=O)OCOC(=O)C)N(CC(=O)OCOC(=O)C)CC(=O)OCOC(=O)C</chem>
由来	Synthetic

## アプリケーション

**The Abpromise guarantee**      **Abpromise保証は、次のテスト済みアプリケーションにおけるab120873の使用に適用されます**  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

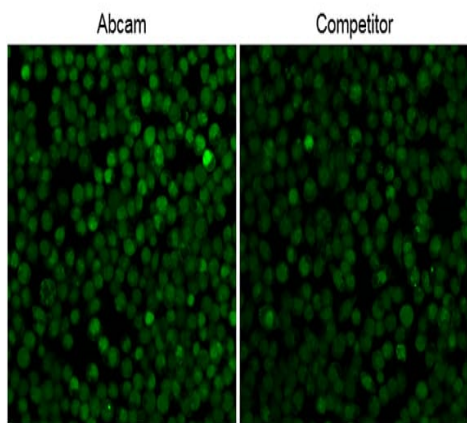
アプリケーション	Abreviews	特記事項
Functional Studies		Use at an assay dependent concentration.

## 画像



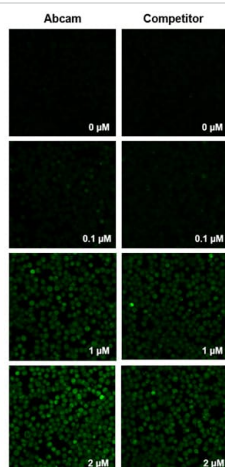
Chemical Structure - Fura-2 AM,  $\text{Ca}^{2+}$  selective fluorescent indicator (ab120873)

2D chemical structure image of ab120873, Fura-2 AM,  $\text{Ca}^{2+}$  selective fluorescent indicator



Fluorescent Cell Imaging - Fura-2 AM,  $\text{Ca}^{2+}$  selective fluorescent indicator (ab120873)

Direct comparison of Abcam and competitor's Fura-2 AM. RAW 264.7 cells were loaded with 2  $\mu\text{M}$  of Fura-2 AM from Abcam (ab120873) and competitor's in a DMSO/ HBSS solution for 30 minutes at room temperature and in the dark. After performing two washes with pre-warmed HBSS the cells were further incubated for 30 minutes at 37°C in the dark. Finally, washes with pre-warmed HBSS were performed and the live cells were imaged on a confocal microscope (using the same exposure settings): excitation laser = 405nm, emission gate center = 519nm.



Fluorescent Cell Imaging - Fura-2 AM,  $\text{Ca}^{2+}$  selective fluorescent indicator (ab120873)

Direct comparison of Abcam and competitor's Fura-2 AM. RAW 264.7 cells were loaded with different concentrations of Fura-2 AM from Abcam (ab120873) and competitor's in a DMSO/ HBSS solution for 30 minutes at room temperature and in the dark. After performing two washes with pre-warmed HBSS the cells were further incubated for 30 minutes at 37°C in the dark. Finally, washes with pre-warmed HBSS were performed and the live cells were imaged on a confocal microscope (using the same exposure settings): excitation laser = 405nm, emission gate center = 519nm.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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