

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

**18 References**   **3 图像**

#### 概述

产品名称	Fura-2 AM, Ca <sup>2+</sup> selective fluorescent indicator
描述	High affinity Ca <sup>2+</sup> selective fluorescent indicator
生物学描述	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 $[Ca^{2+}]_i$ . $Ex_{340/380}/Em_{505}$ .

纯度 > 95%

常规说明  
 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:

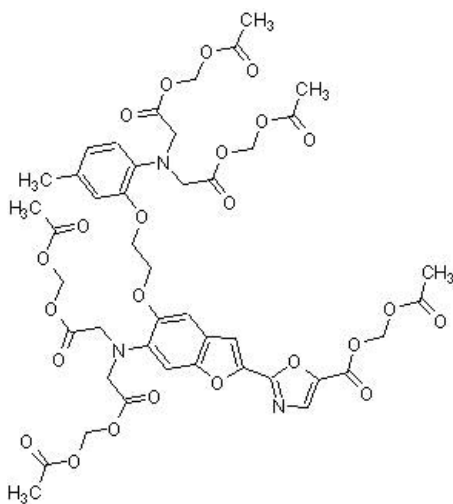
**Fura-2 AM imaging protocol**

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

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

CAS编号 108964-32-5

化学结构



## 性能

化学名称	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识别号	3364574
存放说明	Shipped at Room Temperature. Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
溶解度概述	Soluble in DMSO to 10 mM
处理	<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	<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>
来源	Synthetic

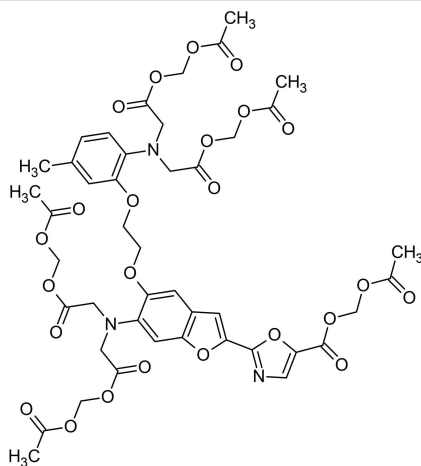
## 应用

**The Abpromise guarantee**      **Abpromise™** 承诺保证使用ab120873于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

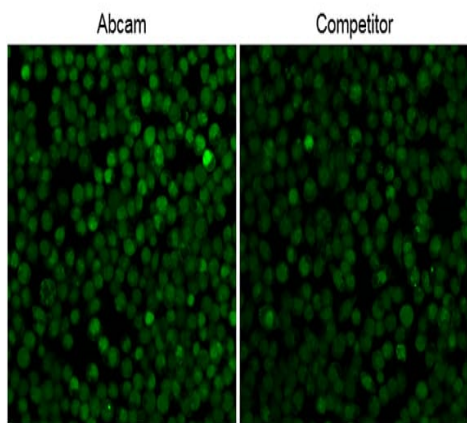
应用	Ab评论	说明
Functional Studies		Use at an assay dependent concentration.

## 图片



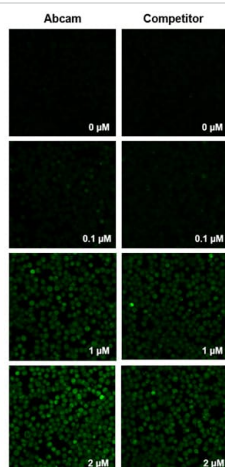
Chemical Structure - Fura-2 AM,  $\text{Ca}^{2+}$  selective fluorescent indicator (ab120873)

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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