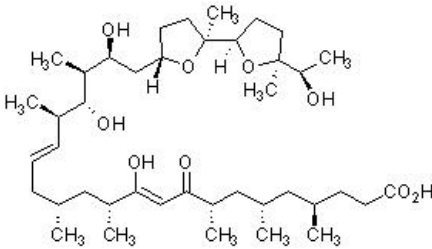


Ionomycin (free acid), Ca²⁺ ionophore ab120370

9 References 2 图像

概述

产品名称	Ionomycin (free acid), Ca ²⁺ ionophore
描述	Ca ²⁺ ionophore
生物学描述	Potent, highly selective Ca ²⁺ ionophore. Effective mobile ion carrier for Ca ²⁺ , highly specific for divalent cations (Ca > Mg >> Sr = Ba). Useful for studies of Ca ²⁺ transport across biological membranes and increasing intracellular Ca ²⁺ concentrations. Complexes with Ca ²⁺ between pH 7 and 9.5. Absorption max. (280 nm, MeOH): 18600 M ⁻¹ cm ⁻¹ .
CAS编号	56092-81-0
化学结构	

性能

化学名称	(4 <i>R</i> ,6 <i>S</i> ,8 <i>S</i> ,10 <i>Z</i> ,12 <i>R</i> ,14 <i>R</i> ,16 <i>E</i> ,18 <i>R</i> ,19 <i>R</i> ,20 <i>S</i> ,21 <i>S</i>)-11,19,21-Trihydroxy-4,6,8,12,14,18,20-heptamethyl-22-[(2 <i>S</i> ,2' <i>R</i> ,5 <i>S</i> ,5' <i>S</i>)-octahydro-5'-[(1 <i>R</i>)-1-hydroxyethyl]-2,5'-dimethyl[2,2'-bifuran]-5-yl]-9-oxo-10,16-docosadienoic acid
分子量	709.01
分子式	C ₄₁ H ₇₂ O ₉
PubChem识别号	6912226
存放说明	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 ethanol to 10 mM and in DMSO to 10 mM
处理	<p>This product is supplied in one (or more) pack size which is freeze dried. Therefore the contents may not be readily visible, as they can coat the bottom or walls of the vial. Please see our FAQs and information page for more details on handling.</p> <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</p>

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.

Refer to SDS for further information.

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions \(FAQ\) page](#) for more details.

SMILES

```
O=C(O)CC[C@H](C)C[C@H](C)C[C@H](C)C(=O)C=C(/O)[C@H](C)C[C@H](C)CC=C[C@H](C)[C@H](O)[C@@H](C)[C@@H](O)C[C@H]1CC[C@](C)(O1)[C@H]2CC[C@](C)(O2)[C@@H](C)O
```

来源

Streptomyces conglobatus

应用

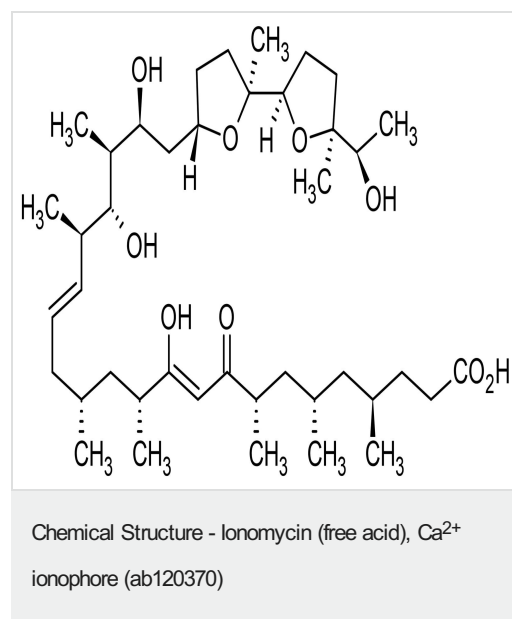
The Abpromise guarantee

Abpromise™承诺保证使用ab120370于以下的经测试应用

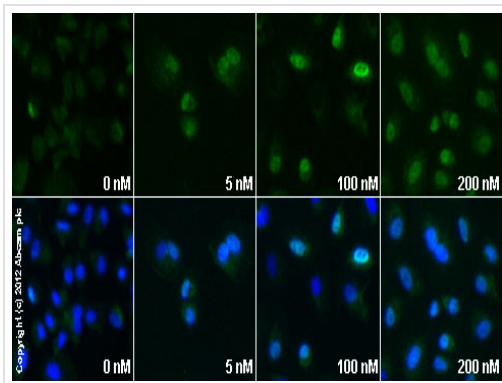
“应用说明”部分 下显示的仅为推荐的起始稀释度；实际最佳的稀释度/浓度应由使用者检定。

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

图片



2D chemical structure image of ab120370, Ionomycin (free acid), Ca²⁺ ionophore



Functional Studies - Ionomycin (free acid), Ca^{2+} ionophore (ab120370)

ab58668 staining ATF3 in A549 cells treated with ionomycin (free acid) (ab120370), by ICC/IF. Increase in ATF3 expression correlates with increased concentration of ionomycin (free acid), as described in literature.

The cells were incubated at 37°C for 2h in media containing different concentrations of ab120370 (ionomycin (free acid)) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with **ab58668** (10 µg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-mouse polyclonal antibody (**ab96879**) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.

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

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