

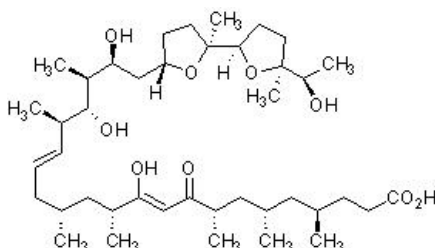
Ionomycin (free acid), Ca²⁺ ionophore ab120370

9 References 画像数 2

製品の概要

製品名	Ionomycin (free acid), Ca ²⁺ ionophore
製品の詳細	Ca ²⁺ ionophore
生理活性の詳細	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 番号	56092-81-0

構造式



製品の特性

体系名	(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 登録番号	6912226
保存方法	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
溶解性	Soluble in ethanol to 10 mM and in DMSO to 10 mM
使用に関する注意	<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 線形表記

```
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
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由来

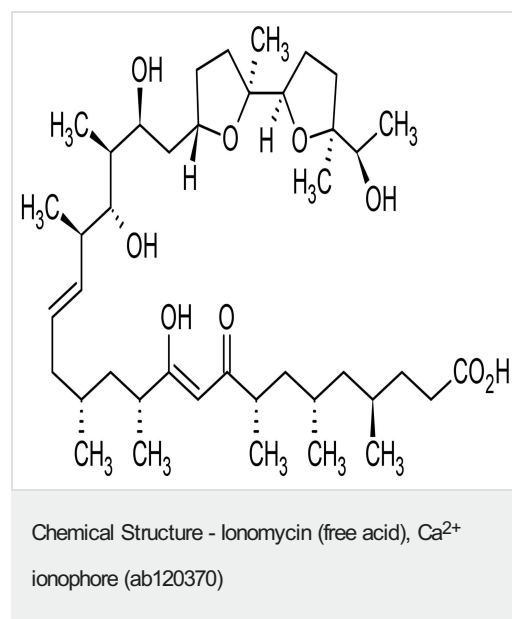
Streptomyces conglobatus

アプリケーション

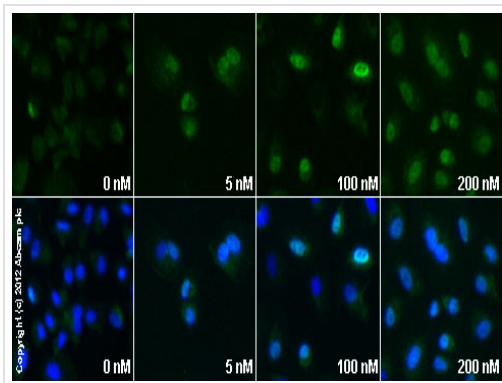
The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab120370の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

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

画像



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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