abcam

Product datasheet

Thapsigargin, Ca2+-ATPase inhibitor ab120286

★★★★★ 1 Abreviews 35 References 画像数 2

製品の概要

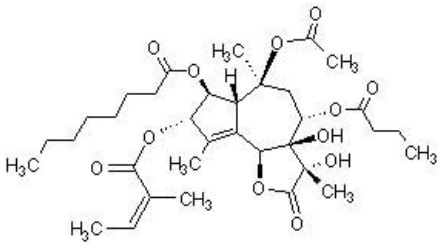
製品名 Thapsigargin, Ca2+-ATPase inhibitor

製品の詳細 Ca^{2+}-ATPase inhibitor

生理活性の詳細 A potent, cell-permeable Ca^{2+}-ATPase inhibitor. Releases Ca^{2+} by inhibiting endoplasmic reticular Ca^{2+}-ATPase (IC_{50} = 4-13 nM). Both tumorogenic and apoptotic actions reported.

CAS 番号 67526-95-8

構造式



製品の特性

体系名 (3*S*,3a*R*,4*S*,6*S*,6a*R*,7*S*,8*S*,9b*S*)-6-(Acetyloxy)-2,3,3a,4,5,6,6a,7,8,9b-decahydro-3,3a-dihydroxy-3,6,9-trimethyl-8-[[(2*Z*)-2-methyl-1-oxo-2-butenyl]oxy]-2-oxo-4-(1-oxobutoxy)azuleno[4,5-*b*]furan-7-yl octanoate

分子量 650.76

分子式 $C_{34}H_{50}O_{12}$

PubChem 登録番号 446378

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 DMSO to 100 mM

使用に関する注意 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.

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	CC=C(C)C(=O)O[C@@H]3[C@@H](OC(=O)CCCCCCC)[C@H]1C([C@@H]2OC(=O)[C@](O)(C)[C@@]2(O)[C@H](C[C@]1(C)OC(C)=O)OC(=O)CCC)=C3C
由来	*Thapsia garganica*

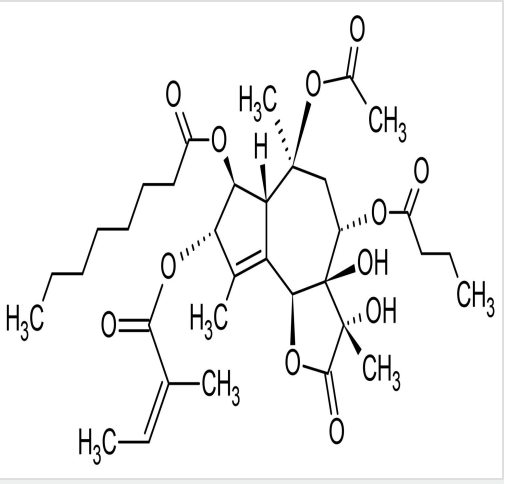
アプリケーション

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ab120286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。

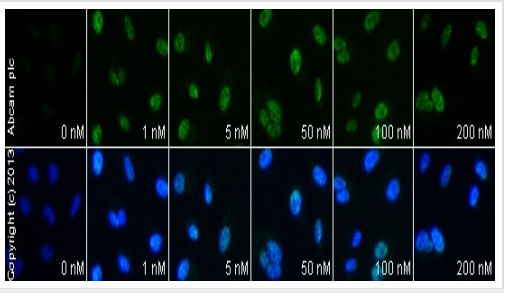
アプリケーション	Abreviews	特記事項
Functional Studies		Use at an assay dependent concentration.

画像



Chemical Structure - Thapsigargin, Ca^{2+}-ATPase inhibitor (ab120286)

2D chemical structure image of ab120286, Thapsigargin, Ca2+-ATPase inhibitor



Functional Studies - Thapsigargin, Ca^{2+}-ATPase inhibitor (ab120286)

ab58668 staining ATF3 in serum starved A549 cells treated with thapsigargin (ab120286), by ICC/IF. Increase of ATF3 correlates with increased concentration of thapsigargin, as described in literature.

The cells were incubated at 37°C for 1h in media containing different concentrations of ab120286 (thapsigargin) 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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