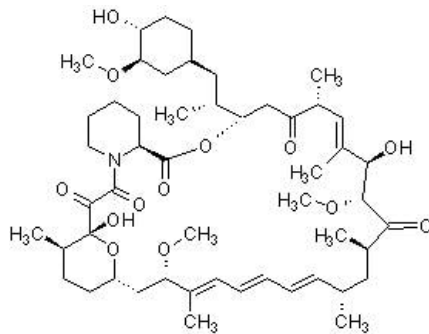


Rapamycin, mTORC1 complex inhibitor ab120224

[22 References](#) [画像数 2](#)

製品の概要

製品名	Rapamycin, mTORC1 complex inhibitor
製品の詳細	mTORC1 complex inhibitor
生理活性の詳細	mTORC1 complex inhibitor. Binds with FKBP-12 to inhibit mTOR (mammalian target of rapamycin) C1 signaling. Induces autophagy <i>in vitro</i> and <i>in vivo</i> .
CAS 番号	53123-88-9
構造式	



製品の特性

体系名	(3 <i>S</i> ,6 <i>R</i> ,7 <i>E</i> ,9 <i>R</i> ,10 <i>R</i> ,12 <i>R</i> ,14 <i>S</i> ,15 <i>E</i> ,17 <i>E</i> ,19 <i>E</i> ,21 <i>S</i> ,23 <i>S</i> ,26 <i>R</i> ,27 <i>R</i> ,34 <i>aS</i>)-9,10,12,13,14,21,22,23,24,25, 26,27,32,33,34,34 <i>a</i> -Hexadecahydro-9,27-dihydroxy-3-[(1 <i>R</i>)-2-[(1 <i>S</i> ,3 <i>R</i> ,4 <i>R</i>)-4-hydroxy-3-methoxycyclohexyl]-1-methylethyl]-10,21-dimethoxy-6,8,12,14,20,26-hexamethyl-23,27-epoxy-3 <i>H</i> -pyrido[2,1- <i>c</i>][1,4]oxaazacyclohentacontine-1,5,11,28,29(4 <i>H</i> ,6 <i>H</i> ,31 <i>H</i>)-pentone
分子量	914.18
分子式	C ₅₁ H ₇₉ NO ₁₃
PubChem 登録番号	9854380
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 50 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.

Toxic, 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@@H]1CC[C@@H](C[C@H]1OC)C[C@@H](C)[C@H]2OC(=O)
[C@@H]4CCCCN4C(=O)C(=O)[C@]3(O)O[C@H](C[C@H](OC)C(C)=CC=CC=C[C@@H]
(C)C[C@@H](C)C(=O)[C@H](OC)[C@H](O)C(C)=C[C@@H](C)C(=O)C2)CC[C@H]3C
```

由来

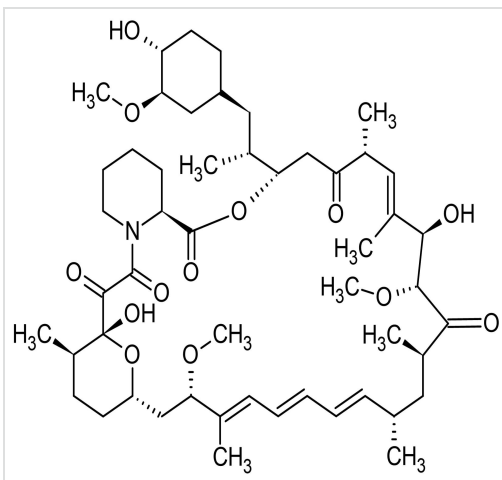
Synthetic

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ab120224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。

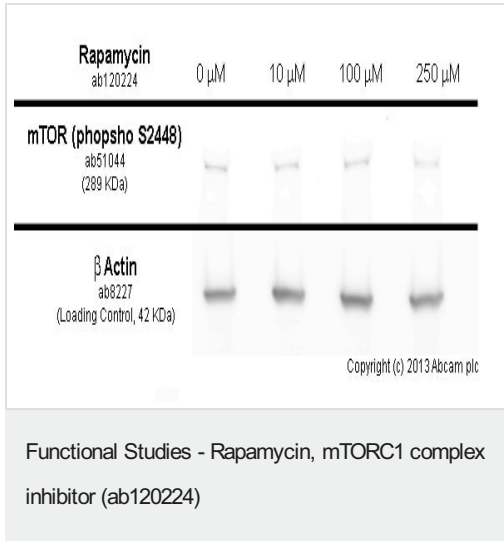
アプリケーション	Abreviews	特記事項
Functional Studies		Use at an assay dependent concentration.

画像



2D chemical structure image of ab120224, Rapamycin, mTORC1 complex inhibitor

Chemical Structure - Rapamycin, mTORC1 complex inhibitor (ab120224)



MCF7 cells were incubated at 37°C for 1h with vehicle control (0 μM) and different concentrations of rapamycin (ab120224).

Decreased expression of mTOR (phospho S2448) (**ab51044**) in MCF7 cells correlates with an increase in rapamycin concentration, as described in literature.

Whole cell lysates were prepared with RIPA buffer (containing protease inhibitors and sodium orthovanadate), 30 μg of each were loaded on the gel and the WB was run under reducing conditions. After transfer the membrane was blocked for an hour using 5% BSA before being incubated with **ab51044** at 1 μg/ml and **ab8227** at 1 μg/ml overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP (**ab97051**) at 1/10000 dilution and visualised using ECL development solution.

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

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