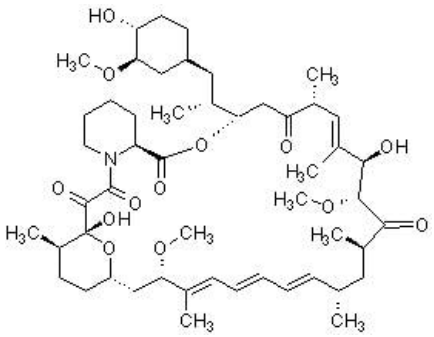
abcam

Product datasheet

Rapamycin, mTORC1 complex inhibitor ab120224

22 References 2 图像

概述

产品名称	Rapamycin, mTORC1 complex抑制剂
描述	mTORC1 complex抑制剂
生物学描述	mTORC1 complex inhibitor. Binds with FKBP-12 to inhibit mTOR (mammalian target of rapamycin) C1 signaling. Induces autophagy *in vitro* and *in vivo*.
CAS编号	53123-88-9
化学结构	

性能

化学名称	(3*S*,6*R*,7*E*,9*R*,10*R*,12*R*,14*S*,15*E*,17*E*,19*E*,21*S*,23*S*,26*R*,27*R*,34a*S*)-9,10,12,13,14,21,22,23,24,25, 26,27,32,33,34,34a-Hexadecahydro-9,27-dihydroxy-3-[(1*R*)-2-[(1*S*,3*R*,4*R*)-4-hydroxy-3-methoxycyclohexyl]-1-methylethyl]-10,21-dimethoxy-6,8,12,14,20,26-hexamethyl-23,27-epoxy-3*H*-pyrido[2,1-*c*][1,4]oxaazacyclohentriacontine-1,5,11,28,29(4*H*,6*H*,31*H*)-pentone
分子量	914.18
分子式	$C_{51}H_{79}NO_{13}$
PubChem识别号	9854380
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 DMSO to 50 mM
处理	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 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

来源 Synthetic

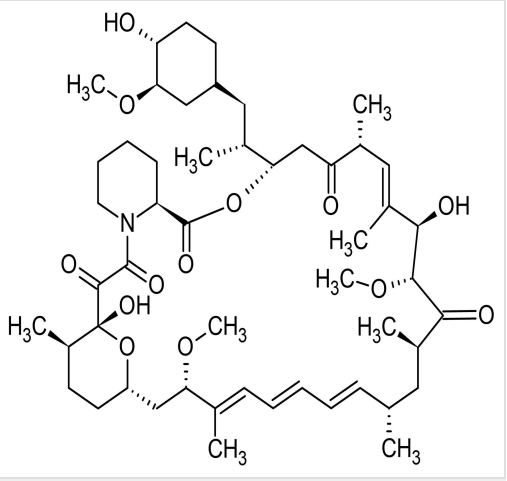
应用

The Abpromise guarantee **Abpromise™承诺保证使用ab120224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。

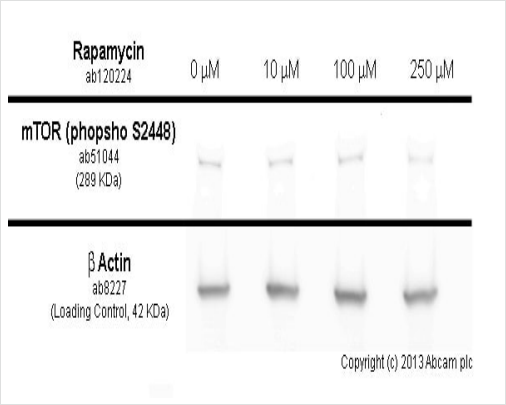
应用	Ab评论	说明
Functional Studies		Use at an assay dependent concentration.

图片



Chemical Structure - Rapamycin, mTORC1 complex inhibitor (ab120224)

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



Functional Studies - 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.

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