

(±)-Blebbistatin, inhibitor of myosin II ab120425

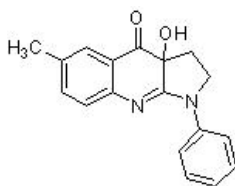
34 References **画像数 2**

製品の概要

製品名	(±)-Blebbistatin, inhibitor of myosin II
製品の詳細	Potent, selective, inhibitor of myosin II
生理活性の詳細	Cell-permeable, reversible inhibitor of non-muscle myosin II. Shows high affinity and selectivity for vertebrate and invertebrate Myosin II (IC ₅₀ values 0.5-5 μM). Inhibits actin-activated MgATPase activity and <i>in vitro</i> motility of class II myosins. Also inhibits contraction of the cytokinetic ring. Blocks cell blebbing and disrupts directed cell migration and cytokinesis.

CAS 番号 674289-55-5

構造式



製品の特性

体系名	(±)-1,2,3,3a-Tetrahydro-3a-hydroxy-6-methyl-1-phenyl-4 <i>H</i> -pyrrolo[2,3- <i>b</i>]quinolin-4-one
分子量	292.34
分子式	C ₁₈ H ₁₆ N ₂ O ₂
PubChem 登録番号	3476986
保存方法	Store at +4°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. Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

SMILES 線形表記 Cc2ccc3N=C1N(CCC1(O)C(=O)c3c2)c4ccccc4

アプリケーション

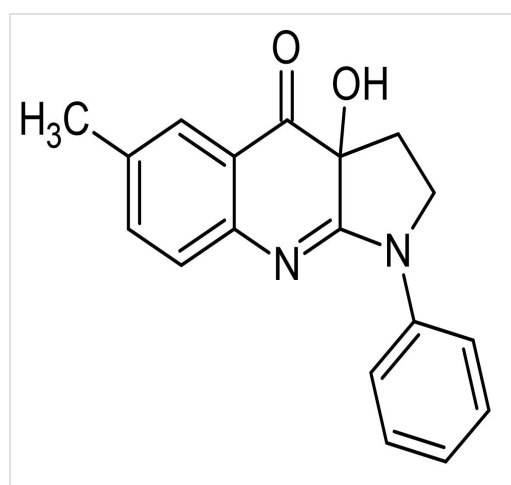
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Abpromise保証は、次のテスト済みアプリケーションにおけるab120425の使用に適用されます

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。

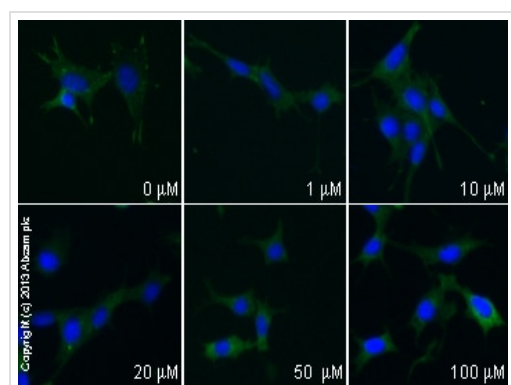
アプリケーション	Abreviews	特記事項
Functional Studies		Use at an assay dependent concentration.

画像



2D chemical structure image of ab120425, Blebbistatin, inhibitor of myosin II

Chemical Structure - (±)-Blebbistatin, inhibitor of myosin II (ab120425)



Functional Studies - (±)-Blebbistatin, inhibitor of myosin II (ab120425)

ab32084 staining paxillin in MEF1 cells treated with (+/-)-blebbistatin (ab120425), by ICC/IF. Decreased membrane expression of paxillin correlates with increased concentration of (+/-)-blebbistatin, as described in literature.

The cells were incubated at 37°C for 1h in media containing different concentrations of ab120425 ((+/-)-blebbistatin) 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 **ab32084** (1/100 dilution) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-rabbit polyclonal antibody (**ab96899**) 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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