

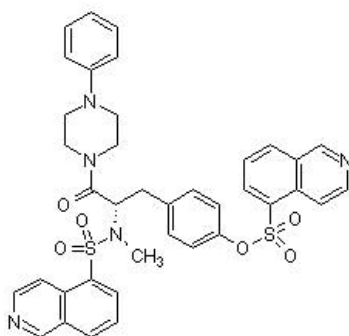
KN-62, CaM kinase II inhibitor. P2X7 antagonist. ab120421

4 References [画像数 2](#)

製品の概要

製品名	KN-62, CaM kinase II inhibitor. P2X7 antagonist.
製品の詳細	CaM kinase II inhibitor. P2X ₇ antagonist.
生理活性の詳細	Cell-permeable, reversible and selective inhibitor of CaM kinase II (IC ₅₀ = 500 nM). Interacts with the calmodulin binding site of the enzyme. At higher concentrations reported to inhibit GSK3β, PRAK and MAPKAP-K2. Also potent non-competitive antagonist at the P2X ₇ receptor (IC ₅₀ = 15 nM).
精製度	> 97%
CAS 番号	127191-97-3

構造式



製品の特性

体系名	4-[(2S)-2-[(5-Isoquinolinylsulfonyl)methylamino]-3-oxo-3-(4-phenyl-1-piperaziny)propyl]phenylisoquinolinesulfonic acid ester
分子量	721.84
分子式	C ₃₈ H ₃₅ N ₅ O ₆ S ₂
PubChem 登録番号	5312126
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.

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([C@H](Cc3ccc(OS(=O)(=O)c2cccc1cnccc12)cc3)N(C)S(=O)(=O)c5cccc4cnccc45)N6CCN(CC6)c7cccc7
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由来

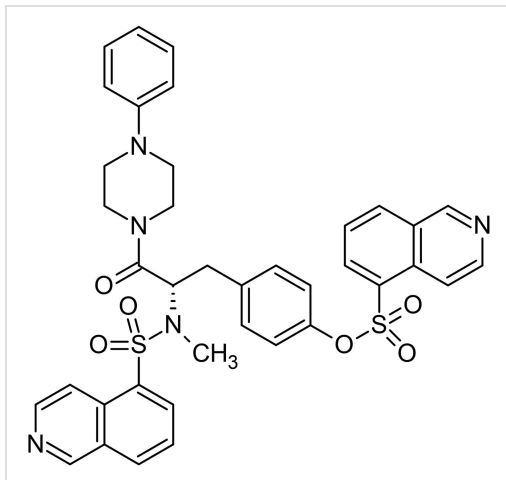
Synthetic

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ab120421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。

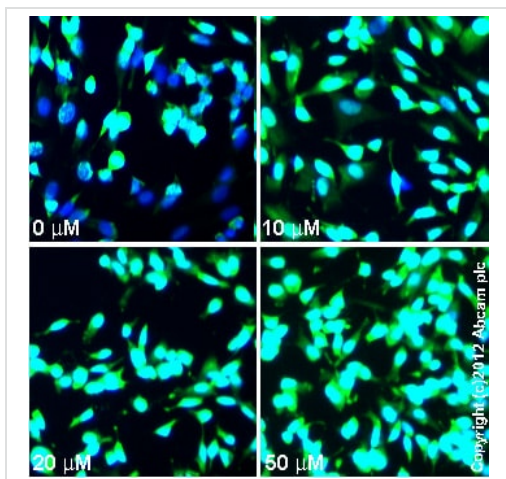
アプリケーション	Abreviews	特記事項
Functional Studies		Use at an assay dependent concentration.

画像



2D chemical structure image of ab120421, KN-62, CaM kinase II inhibitor. P2X7 antagonist.

Chemical Structure - KN-62, CaM kinase II inhibitor.
P2X₇ antagonist. (ab120421)



Immunocytochemistry/ Immunofluorescence - KN-62, CaM kinase II inhibitor. P2X7 antagonist. (ab120421)

ab18197 staining PCNA in SK-N-SH cells treated with KN-62 (ab120421), by ICC/IF. Increase in PCNA nuclear expression correlates with increased concentration of KN-62, as described in literature.

The cells were incubated at 37°C for 24h in media containing different concentrations of ab120421 (KN-62) in DMSO, fixed with 100% methanol for 5 minutes at -20°C 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 **ab18197** (1 μg/ml) 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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