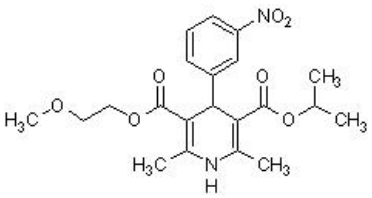
abcam

Product datasheet

Nimodipine, L-type Ca2+ channel blocker ab120138

4 References 画像数 2

製品の概要

製品名	Nimodipine, L-type Ca2+ channel blocker
製品の詳細	L-type Ca^{2+} channel blocker
生理活性の詳細	L-type Ca^{2+} channel blocker. Potent cerebrovasodilator. Cognitive enhancer. More lipophilic than nifedipine (**ab120135**).
特記事項	Nimodipine is light sensitive and it is recommended that the compound is protected from light.
CAS 番号	66085-59-4
構造式	

製品の特性

体系名	1,4-Dihydro-2,6-dimethyl-4-(3-nitrophenyl)-3,5-pyridinedicarboxylic acid 2-methoxyethyl 1-methylethyl ester
分子量	418.44
分子式	$C_{21}H_{26}N_2O_7$
PubChem 登録番号	4497
保存方法	Store at Room Temperature. The product can be stored for up to 12 months.
溶解性	Soluble in DMSO to 100 mM and in ethanol to 10 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	CC=1NC(C)=C(C(C=1C(=O)OC(C)C)c2cccc(c2)[N+]([O-])=O)C(=O)OCCOC
由来	Synthetic

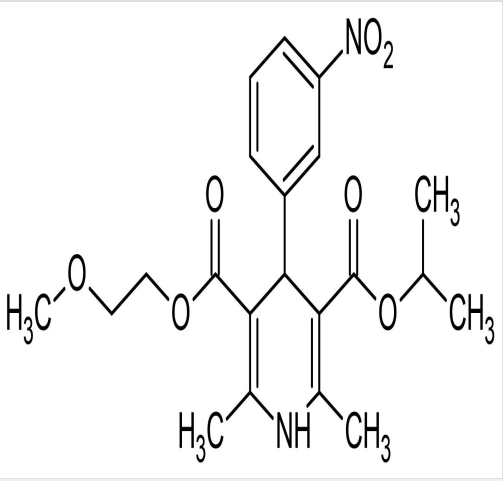
アプリケーション

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ab120138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。

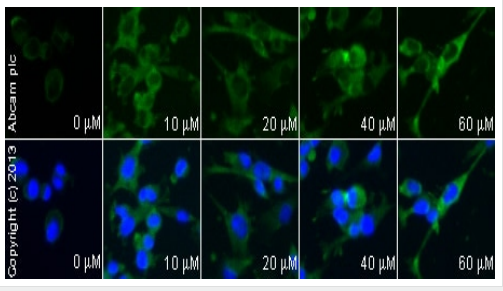
アプリケーション	Abreviews	特記事項
Functional Studies		Use at an assay dependent concentration.

画像



Chemical Structure - Nimodipine, L-type Ca^{2+} channel blocker (ab120138)

2D chemical structure image of ab120138, Nimodipine, L-type Ca2+ channel blocker



Functional Studies - Nimodipine, L-type Ca^{2+} channel blocker (ab120138)

ab2770 staining aryl hydrocarbon receptor in MDA-MB-231 cells treated with nimodipine (ab120138), by ICC/IF. Increase in aryl hydrocarbon receptor expression correlates with increased concentration of nimodipine, as described in literature.
The cells were incubated at 37°C for 6h in media containing different concentrations of ab120138 (nimodipine) 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 **ab2770** (1/100 dilution) 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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