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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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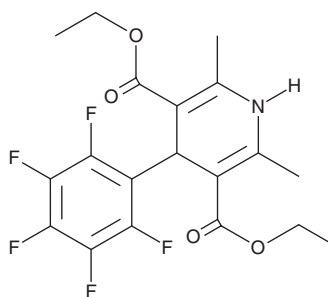
PRODUCT INFORMATION



Nemadipine A

Item No. 21689

CAS Registry No.: 54280-71-6
Formal Name: 1,4-dihydro-2,6-dimethyl-4-(2,3,4,5,6-pentafluorophenyl)-3,5-pyridinedicarboxylic acid, 3,5-diethyl ester
MF: C₁₉H₁₈F₅NO₄
FW: 419.3
Purity: ≥98%
UV/Vis.: λ_{max}: 231, 365 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Nemadipine A is supplied as a crystalline solid. A stock solution may be made by dissolving the nemadipine A in the solvent of choice. Nemadipine A is soluble in organic solvents such as ethanol, methanol, and DMSO, which should be purged with an inert gas. The solubility of nemadipine A in these solvents is approximately 15, 100, and 20 mg/ml, respectively.

Description

Nemadipine A is an L-type calcium channel blocker that induces morphological and growth defects in wild-type *C. elegans* and those with hypoeexpression of *egl-19*, which encodes the only L-type calcium channel α₁-subunit in the *C. elegans* genome.¹ It also inhibits L-type calcium channels in chick ciliary neurons. Nemadipine A increases TRAIL-induced cytotoxicity and synergistically enhances caspase-8 and caspase-3 activation in a concentration-dependent manner in H1299 lung adenocarcinoma cells.² It also decreases Survivin expression when used alone or in combination with TRAIL in A549 cells.

References

1. Kwok, T.C., Ricker, N., Fraser, R., *et al.* A small-molecule screen in *C. elegans* yields a new calcium channel antagonist. *Nature* **441(7089)**, 91-95 (2006).
2. Park, S.H., Park, S.J., Kim, J.-O., *et al.* Down-regulation of survivin by nemadipine-A sensitizes cancer cells to TRAIL-induced apoptosis. *Biomol. Ther. (Seoul)* **21(1)**, 29-34 (2013).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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