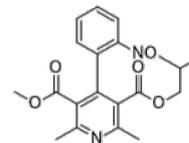


Product Name : Nitrosonisoldipine
Cat. No. : PC-26191
CAS No. : 87375-91-5
Molecular Formula : C₂₀H₂₂N₂O₅
Molecular Weight : 370.41
Target : Caspase
Solubility : 10 mM in DMSO



CAS: 87375-91-5

Biological Activity

Nitrosonisoldipine is a photodegradation product of calcium channel inhibitor nisoldipine, is a selective inhibitor of inflammatory caspases, inhibits noncanonical pyroptosis mediated by caspase-11 or caspase-4 and canonical pyroptosis mediated by caspase-1.

Nitrosonisoldipine inhibits noncanonical pyroptosis in iBMDMs.

Nitrosonisoldipine blocks caspase-4/-11 activation in noncanonical pyroptosis.

Nitrosonisoldipine blocks caspase-1 activation in canonical pyroptosis.

Nitrosonisoldipine does not affect apoptosis.

Nitrosonisoldipine directly and irreversibly inhibits the enzyme activities of inflammatory caspases.

Nitrosonisoldipine (4.44, 14.8, and 44.4 mg/kg) is protective in LPS- and polymicrobe-induced sepsis in C57BL/6 mice.

References

Qianyue Chen, et al. Eur J Immunol. 2021 May;51(5):1234-1245.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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