

Product Datasheet

INF 4E

Catalog No. **BP-02456** · CAS **88039-46-7** · Form **free base** · Physical state **other** · Color **Colorless to light yellow** · Version **1.0**
· Revision **2026-09-11**

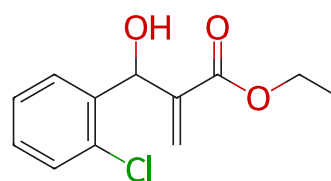
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Target NOD-like Receptor (NLR)	Research area Inflammation/Immunology
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Molecular formula **C₁₂H₁₃ClO₃**

Molecular weight **240.6830**

STRUCTURE



DESCRIPTION

INF4E is a potent NLRP3 inflammasome inhibitor. INF4E inhibits caspase-1 and NLRP3 ATPase activities. INF4E shows protection against the IR-induced myocardial injury and dysfunction .

BIOLOGICAL ACTIVITY

In Vitro

INF4E (compound 9) prevents both ATP- and nigericin-triggered pyroptosis of human THP-1 cells in a time- and concentration-dependent manner.

In Vivo

INF4E significantly reduces the infarct size and lactate dehydrogenase release and improves postischemic left ventricular pressure.

INF4E attenuates the formation of NLRP3 inflammasome complex induced by myocardial IR (ischemia/reperfusion) in a time-dependent way.

SOLUBILITY

Soluble in DMSO

REFERENCES

[1]. Shi Y, et al. NLRP3 inflammasome inhibitor INF39 attenuated NLRP3 assembly in macrophages. Int Immunopharmacol. 2021 Mar;92:107358.

[2]. Mezzaroma E, et al. NLRP3 Inflammasome Inhibitors in Cardiovascular Diseases. Molecules. 2021 Feb 12;26(4):976.

[3].occo M, et al. Electrophilic warhead-based design of compounds preventing NLRP3 inflammasome-dependent pyroptosis. J Med Chem. 2014 Dec 26;57(24):10366-82.

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