

Product Datasheet

CDDO-2P-Im

Catalog No. **BP-01944** · CAS **1883650-96-1** · Form **free base** · Physical state **solid** · Color **white to off-white** · Version **1.0** · Revision **2026-09-03**

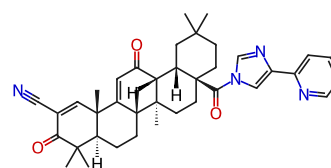
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Target Apoptosis	Research area Cancer
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Molecular formula **C₃₉H₄₆N₄O₃**

Molecular weight **618.8075**

STRUCTURE



DESCRIPTION

CDDO-2P-Im is an analogue of CDDO-Imidazolide with chemopreventive effect. CDDO-2P-Im can reduce the size and the severity of the lung tumors in mouse lung cancer model.

BIOLOGICAL ACTIVITY

In Vitro

CDDO-2P-Im (100 nM; 4 days) induces differentiation of U937 cells at 100 nM.

CDDO-2P-Im suppresses NO production in RAW264.7 cells with an IC₅₀ of 5.8 nM.

In Vivo

CDDO-2P-Im is more stable than CDDO-Im in pharmacokinetic studies.

CDDO-2P-Im significantly elevates heme oxygenase-1 (HO-1) and quinone reductase (NQO1) mRNA and protein levels in various mouse tissues in vivo.

CDDO-2P-Im (50-200 mg/kg; diet; for 16 weeks) decreases the number, the size and the severity of tumors in A/J mice.

SOLUBILITY

Soluble in DMSO

REFERENCES

[1]. Cao M , et al. Novel synthetic pyridyl analogues of CDDO-Imidazolide are useful new tools in cancer prevention. Pharmacol Res. 2015 Oct;100:135-47.