

Product Datasheet

CDDO-dhTFEA

Catalog No. **BP-01847** · CAS **1191265-33-4** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-08**

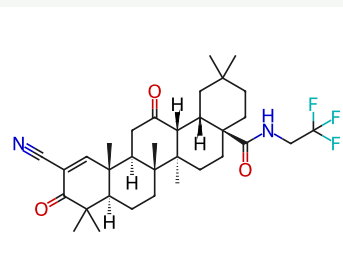
FOR RESEARCH USE ONLY. NOT FOR HUMAN OR VETERINARY USE.

Target Keap1-Nrf2; NF-κB; Apoptosis	Research area Cardiovascular Disease; Inflammation/Immunology
---	---

Molecular formula **C₃₃H₄₅F₃N₂O₃**

Molecular weight **574.7172**

STRUCTURE



DESCRIPTION

CDDO-dhTFEA is a synthetic oleanane triterpenoid compound which potently activates Nrf2 and inhibits the pro-inflammatory transcription factor NF-κB.

BIOLOGICAL ACTIVITY

CDDO-dhTFEA is a synthetic oleanane triterpenoid compound which potently activates Nrf2 and inhibits the pro-inflammatory transcription factor NF-κB. It restores hypertension (MAP), increases Nrf2 and expression of its target genes, attenuates activation of NF-κB and transforming growth factor-β pathways, and reduces glomerulosclerosis, interstitial fibrosis and inflammation in the chronic kidney disease (CKD) rats.

SOLUBILITY

Soluble in DMSO 100 mg/mL

REFERENCES

- [1]. Aminzadeh MA, et al. The synthetic triterpenoid RTA dh404 (CDDO-dhTFEA) restores endothelial function impaired by reduced Nrf2 activity in chronic kidney disease. Redox Biol. 2013 Oct 31;1:527-31.
- [2]. Aminzadeh MA, et al. The synthetic triterpenoid RTA dh404 (CDDO-dhTFEA) restores Nrf2 activity and attenuates oxidative stress, inflammation, and fibrosis in rats with chronic kidney disease. Xenobiotica. 2014 Jun;44(6):570-8.
- [3]. Robles L, et al., Synthetic Triterpenoid RTA dh404 (CDDO-dhTFEA) Ameliorates Acute Pancreatitis. Pancreas. 2016 May-Jun;45(5):720-9.