

CDDO-dhTFEA

Chemical Properties

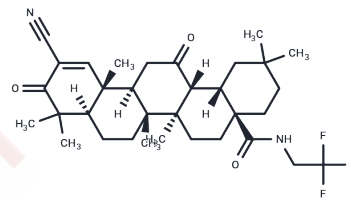
CAS No. : 1191265-33-4

Formula: C33H45F3N2O3

Molecular Weight: 574.72

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	CDDO-dhTFEA, a synthetic oleanane triterpenoid, effectively activates Nrf2 while inhibiting the NF-κB pro-inflammatory transcription factor. It restores mean arterial pressure (MAP), elevates Nrf2 levels and the expression of related genes, attenuates NF-κB and transforming growth factor-β pathway activation, and mitigates glomerulosclerosis, interstitial fibrosis, and inflammation in rats with chronic kidney disease (CKD).
Targets(IC50)	NF-κB,Nrf2
In vivo	CDDO-dhTFEA restores hypertension, 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 rats [2].

Solubility Information

Solubility	DMSO: 100 mg/mL (174.00 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.740 mL	8.6999 mL	17.3998 mL
5 mM	0.348 mL	1.740 mL	3.480 mL
10 mM	0.174 mL	0.870 mL	1.740 mL
50 mM	0.0348 mL	0.174 mL	0.348 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

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.

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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