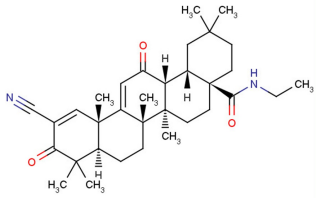
Data Sheet (Cat.No.T10733)

TargetMol
A DRUG SCREENING EXPERT

CDDO-EA

Chemical Properties



CAS No.:	932730-51-3
Formula:	C33H46N2O3
Molecular Weight:	518.73
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	CDDO-EA is an activator of NF-E2 related factor 2/antioxidant response element (Nrf2/ARE).
Targets(IC_{50})	Nrf2/ARE: None
In vitro	In a cell culture model of ALS, CDDO-EA potently activates Nrf2/ARE [1]. CDDO-EA is a potent inducer of apoptosis in A549 lung cancer cells. CDDO-EA is more potent than CDDO itself as inducers of heme oxygenase-1 (HO-1). In RAW264.7 macrophage-like cells, CDDO-EA is 7-fold more potent than CDDO as suppressors of the ability of IFN-γ to induce iNOS [2].
In vivo	G93A mice treated with CDDO-EA, compared to G93A littermate controls, lives significantly longer. CDDO-EA treatment increases the life-span by 20.6 days from 124.05±3.7 days to 144.72±8.1 days (16.6%) ($p<0.001$). In CDDO-EA-treated G93A mice, the age of death is 141.4±5.2 days and the duration from the age of onset to the age of death is 57.6±7.6 days, which means that the age of death from the onset is prolonged by 17.5 days (43%) [1].

Solubility Information

Solubility	DMSO: 34 mg/mL (65.54 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.928 mL	9.639 mL	19.278 mL
5 mM	0.386 mL	1.928 mL	3.856 mL
10 mM	0.193 mL	0.964 mL	1.928 mL
50 mM	0.039 mL	0.193 mL	0.386 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Neymotin A, et al. Neuroprotective effect of Nrf2/ARE activators, CDDO ethylamide and CDDO trifluoroethylamide, in a mouse model of amyotrophic lateral sclerosis. Free Radic Biol Med. 2011 Jul 1;51(1):88-96.
2. Liby K, et al. The synthetic triterpenoids CDDO-methyl ester and CDDO-ethyl amide prevent lung cancer induced by vinyl carbamate in A/J mice. Cancer Res. 2007 Mar 15;67(6):2414-9.

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