Revision	1	
I C VISIOII		

Store at -20C	CDDO-Me	JE -	Cell Signaling
		Orders:	877-616-CELL (2355) orders@cellsignal.com
33	5 mg	Support	:: 877-678-TECH (8324)
533		Web:	info@cellsignal.com cellsignal.com
#3		3 Trask Lane Danvers	Massachusetts 01923 USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Background	CDDO-Me (bardoxolone methyl) is a synthetic triterpenoid that induces apoptosis and differentiation in cancer cells, and exhibits strong antiproliferative and antiangiogenic activities (1). CDDO-Me activates nuclear factor-like 2 (NRF2) transcriptional activator, which regulates oxidative stress response gene expression through binding of antioxidant response element (ARE) promoter gene regions. CDDO-Me interacts with the NRF2 inhibitor INrf2 (also called KEAP1), resulting in the release of NRF2 from the proteasome pathway and translocation of NRF2 into the nucleus (2). Additionally, CDDO-Me binds IKKβ to block the targeting of NF-κB p65 to the nucleus and inhibits NF-κB activation and downstream pro-inflammatory signaling pathways (3). CDDO-Me has been studied as an anticancer and anti-inflammatory drug, with potential to treat patients with chronic kidney disease associated with diabetes (4). Low doses of CDDO-Me may exert therapeutic effects on cardiac function in models of chronic heart failure (5).
Molecular Formula	C ₃₂ H ₄₃ NO ₄
Molecular Weight	505.7 g/mol
Purity	>98%
CAS	218600-53-4
Solubility	Soluble in DMSO at 25 mg/mL.
Storage	Store lyophilized at -20°C, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, store at -20°C and use within 3 months to prevent loss of potency. <i>Aliquot to avoid multiple freeze/thaw cycles</i> .
Directions for Use	CDDO-Me is supplied as a lyophilized powder. For a 10 mM stock, reconstitute 5 mg of powder in 0.99 mL of DMSO. Working concentrations and length of treatment can vary depending on the desired effect.
Background References	1. Borella, R. et al. (2019) <i>Molecules</i> 24, 4097. doi: 10.3390/molecules24224097. 2. Liby, K.T. and Sporn, M.B. (2012) <i>Pharmacol Rev</i> 64, 972-1003. 3. Wang, Y.Y. et al. (2014) <i>Drug Des Devel Ther</i> 8, 2075-88. 4. Kanda, H. and Yamawaki, K. (2020) <i>Clin Exp Nephrol</i> 24, 857-864. 5. Tian, C. et al. (2019) <i>J Pharmacol Exp Ther</i> 371, 642-651.
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