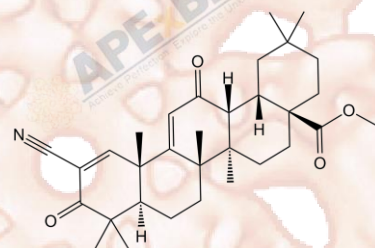


# Product Data Sheet

## Bardoxolone methyl

<b>Cat. No.:</b>	A3221
<b>CAS No.:</b>	218600-53-4
<b>Formula:</b>	C32H43NO4
<b>M.Wt:</b>	505.69
<b>Synonyms:</b>	NSC 713200; RTA 402; CDDO Methyl ester
<b>Target:</b>	Chromatin/Epigenetics
<b>Pathway:</b>	JAK
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

≥25.3 mg/mL in DMSO; insoluble in EtOH; insoluble in H2O

In Vitro

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1mg	5mg	10mg
	1 mM		1.9775 mL	9.8875 mL	19.7750 mL
	5 mM		0.3955 mL	1.9775 mL	3.9550 mL
	10 mM		0.1977 mL	0.9887 mL	1.9775 mL

Please refer to the solubility information to select the appropriate solvent.

### Biological Activity

Shortsummary

IKK inhibitor, potent antioxidant inflammation modulator

IC<sub>50</sub> & Target

In Vitro

#### Cell Viability Assay

Cell Line:	HL-60, KG-1 and NB4 cells
Preparation method:	The solubility of this compound in DMSO is >10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	~ 5 μM; 72 hrs

	Applications:	In leukemia cells, such as HL-60, KG-1, and NB4 cells, Bardoxolone Methyl decreased cell viability with the IC50 values of 0.4, 0.4 and 0.27 $\mu$ M, respectively.
In Vivo	<b>Animal experiment</b>	
	Animal models:	Female A/J mice i.p. injected with vinyl carbamate
	Dosage form:	60 or 400 mg/kg; p.o.; the mice fed Bardoxolone Methyl for 2 weeks and then switched to a week of control diet, for 15 weeks.
	Applications:	At the dose of 60 mg, Bardoxolone Methyl reduced the number, size, as well as severity of lung tumors in vivo.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

## Product Citations

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

- [1]. Shishodia S, Sethi G, Konopleva M, Andreeff M, Aggarwal BB. A synthetic triterpenoid, CDDO-Me, inhibits I $\kappa$ B kinase and enhances apoptosis induced by TNF and chemotherapeutic agents through down-regulation of expression of nuclear factor kappaB-regulated gene products in human leukemic cells. Clin Cancer Res. 2006 Mar 15;12(6):1828-38.
- [2]. Konopleva M, Tsao T, Ruvolo P, Stiouf I, Estrov Z, Leysath CE, Zhao S, Harris D, Chang S, Jackson CE, Munsell M, Suh N, Gribble G, Honda T, May WS, Sporn MB, Andreeff M. Novel triterpenoid CDDO-Me is a potent inducer of apoptosis and differentiation in acute myelogenous leukemia. Blood. 2002 Jan 1;99(1):326-35.
- [3]. Liby K, Royce DB, Williams CR, Risingsong R, Yore MM, Honda T, Gribble GW, Dmitrovsky E, Sporn TA, Sporn MB. 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.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX<sup>®</sup>BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.



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