



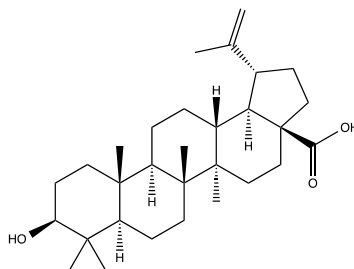
**Catalog # 10-2278**

**Betulinic Acid**

CAS# 472-15-1

3 $\beta$ -Hydroxy-20(29)-lupaene-28-oic acid

Lot # X101503



Natural Lupane triterpenoid from white birch tree (*Betula pubescens*). Induces apoptosis in a variety of cell lines.<sup>1</sup> Induces mitochondrial permeability transition pore opening.<sup>2</sup> Acts as a chemosensitizer for anticancer drug treatment in chemoresistant colon cancer cell lines.<sup>3</sup> Cell permeable.

- 1) Ehrhardt *et al.* (2004) *Betulinic acid-induced apoptosis in leukemia cells*; Leukemia, **18** 1406
- 2) Mullauer *et al.* (2009) *Betulinic acid induces cytochrome c release and apoptosis in Bax/Bak-independent, permeability transition pore dependent fashion.*; Apoptosis, **14** 191
- 3) Jung *et al.* (2007) *Effect of betulinic acid on anticancer drug-resistant colon cancer cells*; Basic Clin. Pharmacol. Toxicol., **101** 277

### PHYSICAL DATA

Molecular Weight:	456.72
Molecular Formula:	C <sub>30</sub> H <sub>48</sub> O <sub>3</sub>
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml), Ethanol (up to 25 mg/ml)
Physical Description:	White or off-white powder
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**