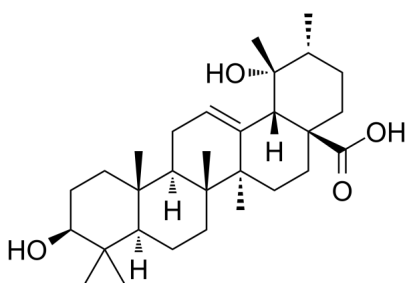


## Certificate of Analysis

Catalog Number	BP14130
Product Name	Pomolic acid

## Physical and Chemical Properties

CAS No.	13849-91-7
Chemical Formula	C <sub>30</sub> H <sub>48</sub> O <sub>4</sub>
Molecular Weight	472.71
Solubility	DMSO: 60 mg/ml (126.93 mM)
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

## Product Information

Description	Pomolic acid has anti-cancer, anti-inflammatory and apoptotic activities, it can induce apoptosis in SK-OV-3 cells, which is mediated by the mitochondrial-mediated intrinsic and death receptor-induced extrinsic pathways.
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In vitro	<p>Oleanolic acid (1) was identified as an anti-HIV principle from several plants, including <i>Rosa woodsii</i> (leaves), <i>Prosopis glandulosa</i> (leaves and twigs), <i>Phoradendron juniperinum</i> (whole plant), <i>Syzygium claviflorum</i> (leaves), <i>Hyptis capitata</i> (whole plant), and <i>Ternstroemia gymnanthera</i> (aerial part). It inhibited HIV-1 replication in acutely infected H9 cells with an EC50 value of 1.7 microg/mL, and inhibited H9 cell growth with an IC50 value of 21.8 microg/mL [therapeutic index (T. I.) 12.8]. Pomolic acid, isolated from <i>R. woodsii</i> and <i>H. capitata</i>, was also identified as an anti-HIV agent (EC50 1.4 microg/mL, T. I. 16.6). Although ursolic acid did show anti-HIV activity (EC50 2.0 microg/mL), it was slightly toxic (IC50 6.5 microg/mL, T. I. 3.3). A new triterpene (11) was also isolated from the CHCl<sub>3</sub>-soluble fraction of <i>R. woodsii</i>, though it showed no anti-HIV activity. The structure of 11 was determined to be 1beta-hydroxy-2-oxoPomolic acid by spectral examination. Based on these results, we examined the anti-HIV activity of oleanolic acid- or Pomolic acid-related triterpenes isolated from several plants. In addition, we previously demonstrated that derivatives of betulinic acid, isolated from the leaves of <i>S. claviflorum</i> as an anti-HIV principle, exhibited extremely potent anti-HIV activity</p>
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## Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	<p>Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.</p>

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