

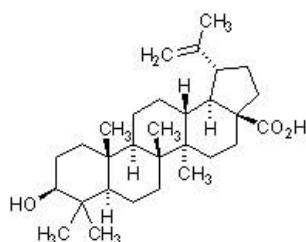
Product datasheet

Betulinic acid, TGR5 agonist ab120654

[1 References](#) [2 Images](#)

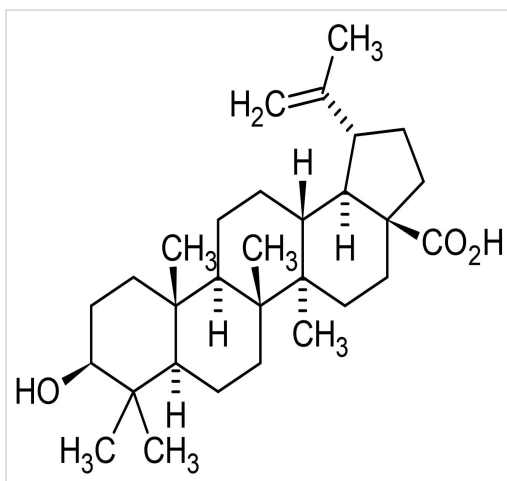
Overview

Product name	Betulinic acid, TGR5 agonist
Description	Anticancer agent. TGR5 agonist.
Biological description	Triterpenoid with various biological activities. Apoptosis inducer, with anticancer properties. Also shows anti-HIV, antimalarial and anti-inflammatory activity. TGR5 agonist ($EC_{50} = 1.04 \mu M$).
CAS Number	472-15-1
Chemical structure	



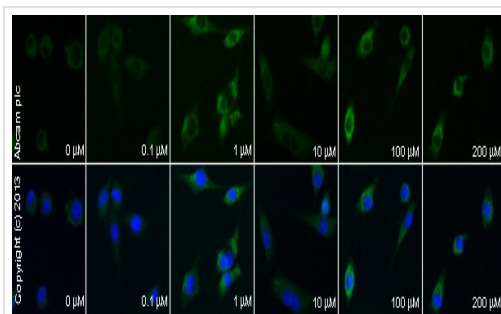
Properties

Chemical name	(3 β)-3-Hydroxylup-20(29)-en-28-oic acid
Molecular weight	456.70
Molecular formula	C ₃₀ H ₄₈ O ₃
PubChem identifier	64971
Storage instructions	Store at +4°C. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 50 mM (with warming)
Handling	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>
Source	Synthetic



Chemical Structure - Betulinic acid, TGR5 agonist
(ab120654)

2D chemical structure image of ab120654, Betulinic acid, TGR5 agonist



Functional Studies - Betulinic acid, TGR5 agonist
(ab120654)

ab32557 staining p38 (phospho T180 + Y182) in MALME-3M cells treated with betulinic acid (ab120654), by ICC/IF. Increase in expression of p38 (phospho T180 + Y182) correlates with increased concentration of betulinic acid, as described in literature. The cells were incubated at 37°C for 30 minutes in media containing different concentrations of ab120654 (betulinic acid) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with **ab32557** (1/200 dilution) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-rabbit polyclonal antibody (**ab96899**) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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