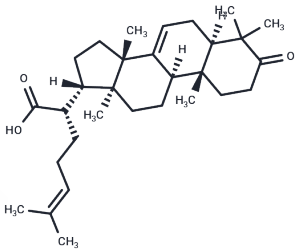
Data Sheet (Cat.No.TN2979)

3-Oxotirucalla-7,24-dien-21-oic acid

Chemical Properties



CAS No. : 82464-35-5

Formula: C30H46O3

Molecular Weight: 454.68

Storage: Store at low temperature,Keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	3-Oxotirucalla-7,24-dien-21-oic acid, the first known compound isolated from Polygonum spp., can also be obtained from the roots of Black Cohosh. This compound demonstrated potent cytotoxicity against MCF-7 cell lines.
Targets(IC50)	Others
In vitro	3-Oxotirucalla-7,24-dien-21-oic acid was isolated from the dichloromethane extract of the stem of Luvunga scandens (Roxb.) Buch-Ham ex Wight & Arn, Rutaceae. The cytotoxic potential of the 3-Oxotirucalla-7,24-dien-21-oic acid was determined by MTT assay against the human breast adenocarcinoma cell line (MCF-7). 3-Oxotirucalla-7,24-dien-21-oic acid showed potent cytotoxicity against the MCF-7 cell line with IC50 values of 27.5 μM, respectively. This result suggested their potential activity as antitumor agents.[1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1993 mL	10.9967 mL	21.9935 mL
5 mM	0.4399 mL	2.1993 mL	4.3987 mL
10 mM	0.2199 mL	1.0997 mL	2.1993 mL
50 mM	0.044 mL	0.2199 mL	0.4399 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Al-Zikri P N H, et al. Cytotoxic tirucallane triterpenes from the stem of Luvunga scandens. Revista Brasileira de Farmacognosia. 2014 ; 24(5):561-564.

Ma C, et al. Inhibitory effects on HIV-1 protease of constituents from the wood of Xanthoceras sorbifolia. J Nat Prod. 2000 ; 63(2):238-242.

Leutcha BP, et al. Cytotoxicity of a new tirucallane derivative isolated from Stereospermum acuminatissimum K. Schum stem bark. Nat Prod Res. 2021 ; 35(22):4417-4422.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481