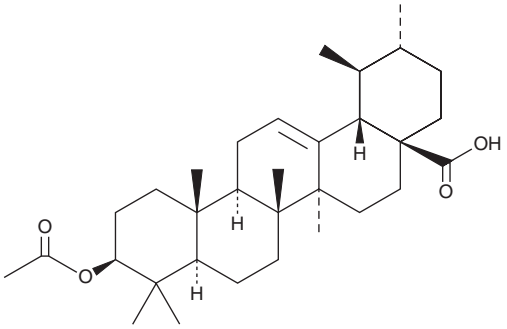
PRODUCT INFORMATION

3-Acetylursolic Acid

Item No. 30220

CAS Registry No.:	7372-30-7
Formal Name:	3β-(acetyloxy)-urs-12-en-28-oic acid
Synonym:	Ursolic Acid Acetate
MF:	$C_{32}H_{50}O_4$
FW:	498.7
Purity:	≥95%
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

3-Acetylursolic acid is supplied as a crystalline solid. A stock solution may be made by dissolving the 3-acetylursolic acid in the solvent of choice, which should be purged with an inert gas. 3-Acetylursolic acid is soluble in organic solvents such as ethanol and dimethyl formamide. The solubility of 3-acetylursolic acid in these solvents is approximately 1 and 15 mg/ml, respectively.

Description

3-Acetylursolic acid is a triterpene and derivative of ursolic acid (Item No. 10072) with diverse biological activities.[1-3] It inhibits ADP-, thrombin-, or epinephrine-induced aggregation of isolated rat platelets (IC_{50}s = <1, 0.8, and <1 mg/ml, respectively).[1] 3-Acetylursolic acid is active against *P. falciparum in vitro* (IC_{50} = 4 µM).[2] It is also active against *B. cereus*, *S. aureus*, and *S. pneumoniae* (MICs = 39.1, 19.6, and 4.81 µM, respectively).[3] It is cytotoxic to HepG2 cells (LC_{50} = 351 µM).

References

1. Habila, J.D., Shode, F.O., and Opoku, A.R. Triterpenoids from Eucalyptus grandis hill ex maiden inhibits platelet aggregation. *Afr. J. Microbiol. Res.* **5(26)**, 4646-4651 (2011).
2. Innocente, A.M., Silva, G.N.S., Cruz, L.N., *et al.* Synthesis and antiplasmodial activity of betulinic acid and ursolic acid analogues. *Molecules* **17(10)**, 12003-12014 (2012).
3. Setzer, W.N., Setzer, M.C., Bates, R.B., *et al.* Biologically active triterpenoids of *Syncarpia glomulifera* bark extract from Paluma, North Queensland, Australia. *Planta Med.* **66(2)**, 176-177 (2000).

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