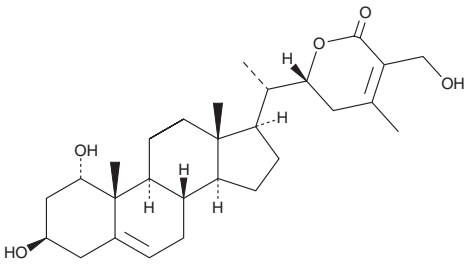
PRODUCT INFORMATION

Sominone

Item No. 46556

CAS Registry No.:	98569-64-3
Formal Name:	1α,3β,22R,27-tetrahydroxy-ergosta-5,24-dien-26-oic acid, δ-lactone
Synonym:	Pubesenolide
MF:	$C_{28}H_{42}O_5$
FW:	458.6
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years
Item Origin:	Plant/Ashwagandha



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

Laboratory Procedures

Sominone is supplied as a solid. A stock solution may be made by dissolving the sominone in the solvent of choice, which should be purged with an inert gas. Sominone is slightly soluble (0.1-1 mg/ml) in chloroform and methanol.

Description

Sominone is a withanolide that has been found in *W. somnifera* and has diverse biological activities.[1-3] It is also an active metabolite of withanoside IV.[1] Sominone inhibits the proliferation of MT-1 and MT-2 leukemia cells (EC_{50}s = 37.8 and 35.3 µM, respectively).[2] It reverses amyloid-β (Aβ) (25-35)-induced decreases in neurite outgrowth and synapse numbers in primary rat cortical neurons at 1 µM.[1] Sominone (10 µmol/kg) enhances spatial memory in mice.[3]

References

1. Kuboyama, T., Tohda, C., and Komatsu, K. Withanoside IV and its active metabolite, sominone, attenuate Aβ(25-35)-induced neurodegeneration. *Eur. J. Neurosci.* **23(6)**, 1417-1426 (2006).
2. Nakano, D., Ishitsuka, K., Katsuya, H., *et al*. Screening of promising chemotherapeutic candidates from plants against human adult T-cell leukemia/lymphoma (II): Apoptosis of antiproliferactive principle (24,25-dihydrowithanolide D) against ATL cell lines and structure-activity relationships with withanolides isolated from solanaceous plants. *J. Nat. Med.* **67(2)**, 415-420 (2013).
3. Tohda, C. and Joyashiki, E. Sominone enhances neurite outgrowth and spatial memory mediated by the neurotrophic factor receptor, RET. *Br. J. Pharmacol.* **157(8)**, 1427-1440 (2009).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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