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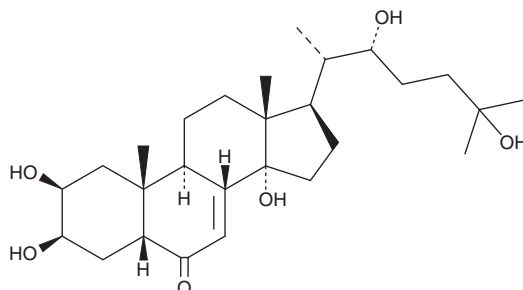
PRODUCT INFORMATION



α -Ecdysone

Item No. 11711

CAS Registry No.: 3604-87-3
Formal Name: (5 β)-2 β ,3 β ,14,22R,25-pentahydroxy-cholest-7-en-6-one
MF: C₂₇H₄₄O₆
FW: 464.6
Purity: \geq 95%
Stability: \geq 2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max} : 242 nm



Laboratory Procedures

For long term storage, we suggest that α -ecdysone be stored as supplied at -20°C. It should be stable for at least two years.

α -Ecdysone is supplied as a crystalline solid. A stock solution may be made by dissolving the α -ecdysone in the solvent of choice. α -Ecdysone is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of α -ecdysone in these solvents is approximately 20, 0.1, and 2 mg/ml, respectively.

α -Ecdysone is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, α -ecdysone should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. α -Ecdysone has a solubility of approximately 0.3 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

α -Ecdysone is a prohormone of 20-hydroxy ecdysone (Item No. 16145), an insect-molting, ecdysteroid hormone.¹ The insect neurohormone, prothoracicotropic hormone, stimulates prothoracic glands to release α -ecdysone, which is then rapidly converted to its active metabolite, 20-hydroxy ecdysone.^{2,3}

References

1. Fallon, A.M. and Gerenday, A. Ecdysone and the cell cycle: Investigations in a mosquito cell line. *J. Insect Physiol.* **56(10)**, 1396-1401 (2010).
2. Carrow, G.M., Calabrese, R.L., and Williams, C.M. Spontaneous and evoked release of prothoracicotropin from multiple neurohemal organs of the tobacco hornworm. *Proc. Natl. Acad. Sci. USA* **78(9)**, 5866-5870 (1981).
3. Cherbas, L. and Cherbas, P. Distribution and metabolism of α -ecdysone in pupae of the silkworm *Antheraea polyphemus*. *Biol. Bull.* **138(2)**, 115-128 (1970).

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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