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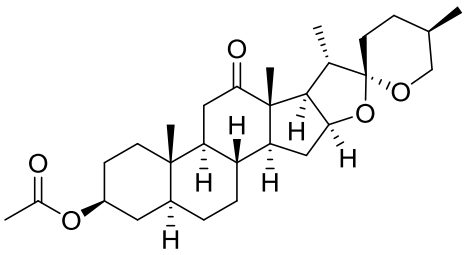
PRODUCT DATA SHEET

Hecogenin acetate

Code No.: **BIA-H1764**

Pack sizes: **1 mg, 5 mg**



Synonyms : 3β-Acetoxy-5α-spirostan-12-one, NSC 15489

Specifications

CAS #	:	**915-35-5**
Molecular Formula	:	**$C_{29}H_{44}O_5$**
Molecular Weight	:	**472.7**
Source	:	***Hechtia texensis***
Appearance	:	**White solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in ethanol, methanol, DMF or DMSO.**

Application Notes

Hecogenin acetate is a steroidal saponin first published in 1943 by Marker and colleagues at Penn State University, USA and isolated from plants of the Agave genus. Hecogenin acetate induces cell cycle arrest and senescence, and modulates ERK1/2 phosphorylation and MMP-2 production. Hecogenin acetate has nociceptive activity mediated by opioid receptors and endogenous analgesic mechanisms.

References

1. Sterols. CLVII. Sapogenins. 69. Isolation and structures of thirteen new steroidal sapogenins. New sources for known sapogenins. Marker R.E. et al., J. Am.Chem. Soc. 1943, 65, 1199.
2. Hecogenin acetate inhibits reactive oxygen species production and induces cell cycle arrest and senescence in the A549 human lung cancer cell line. Gasparotto J. et al., Anticancer Agents Med. Chem. 2014, 14, 1128.
3. Evidence for the involvement of descending pain-inhibitory mechanisms in the antinociceptive effect of hecogenin acetate. Gama K.B. et al., J. Nat. Prod. 2013, 76, 4, 559.

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